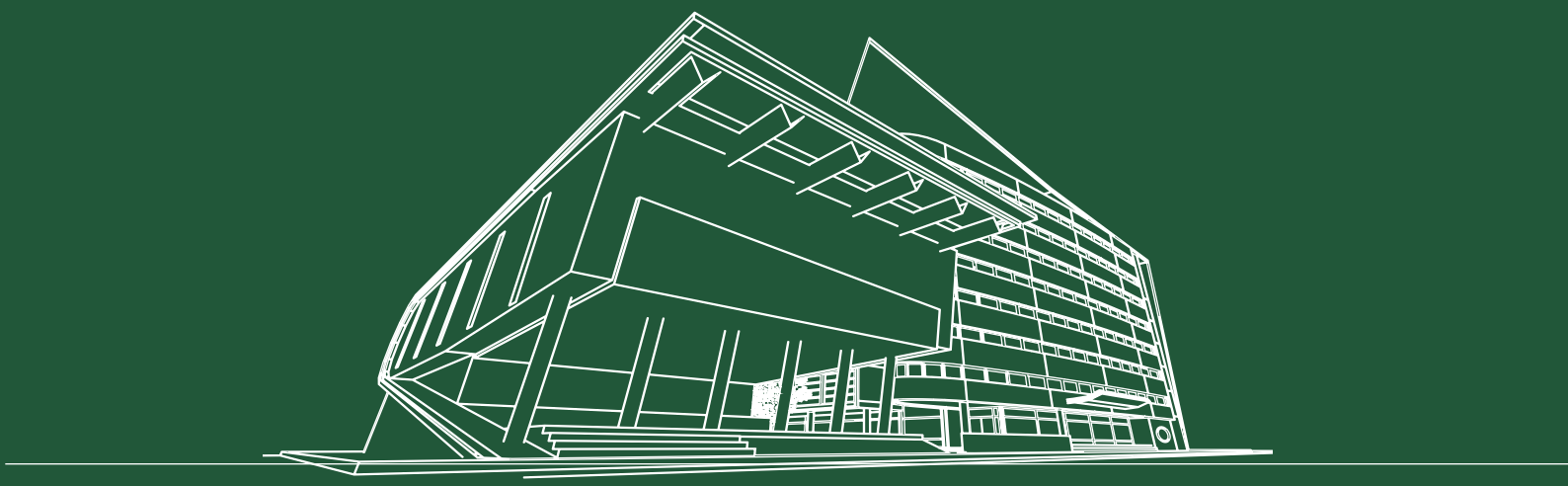
KOALA



树熊建筑工程涂料
系统产品指南

ARCHITECTURAL COATING
SYSTEM ENGINEERINGPRODUCT GUIDE



Building exterior wall is suitable for surface coating

Functional Elastic Coating

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KL1902 High elastic stain resistant exterior wall paint 03
KL1903 Acrylic multifunctional elastic exterior paint 04

Water-based Weather-resistance Paint

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KL1102 Pure acrylic all-weather waterborne exterior wall paint 07
KL1103 High weather resistance self cleaning water based exterior paint 08
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Sand in Water Paint Series

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Building exterior wall is suitable for surface coating

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Base level coating

Base Putty for Exterior Wall

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The outer wall of the building is suitable for mask coating

Finish Coating

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树熊功能型弹性涂料

KOALA FUNCTIONAL ELASTIC COATING

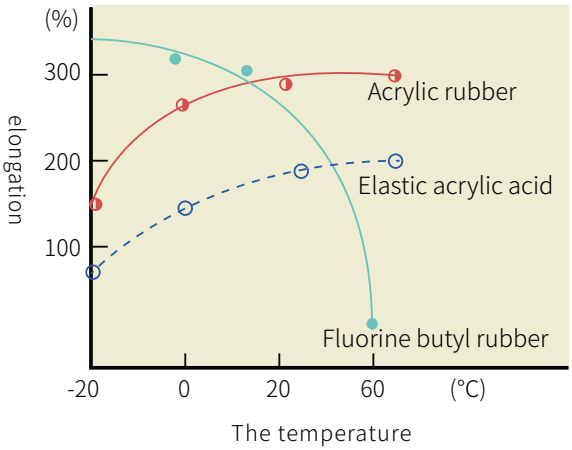
This series of products use special monomer synthetic elastic resin emulsion as the main film forming material for building finishes, paint film has strong tensile properties, can cover up the fine cracks of the wall, is conducive to prevent rain infiltration, and prevent concrete base and primer neutral. It is widely used in high and low temperature environment with excellent ductility and tensile strength.



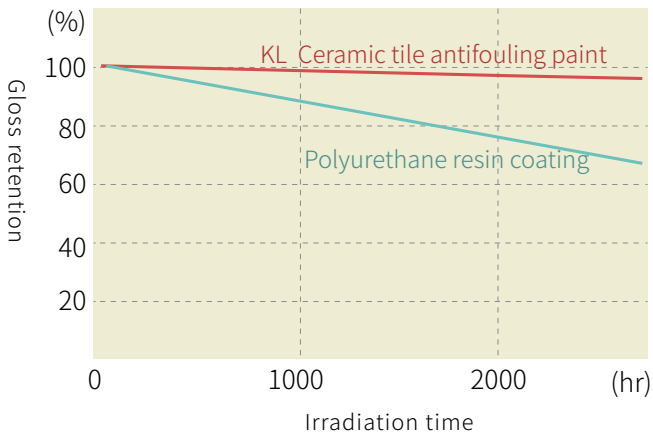
The main characteristics of koala functional elastic coating are: strong tensile elasticity elongation, high temperature non-adhesion, good anti-pollution ability, strong adhesion, low temperature without loss of elasticity.

The product name	The typical characteristics of	elongation	Durability (year)	The page number
KL1901 Advanced stain resistant elastic exterior wall paint	Moderate elastic elongation, excellent stain resistance	250%	10	02
KL1902 High elastic stain resistant exterior wall paint	High elasticity and elongation, cover wall cracks, excellent anti-fouling performance	400%	15	03
KL1903 Acrylic multifunctional elastic exterior paint	The film has excellent air permeability, water resistance and low temperature elasticity	350%	15	04

Various elastic coatings are affected by temperature

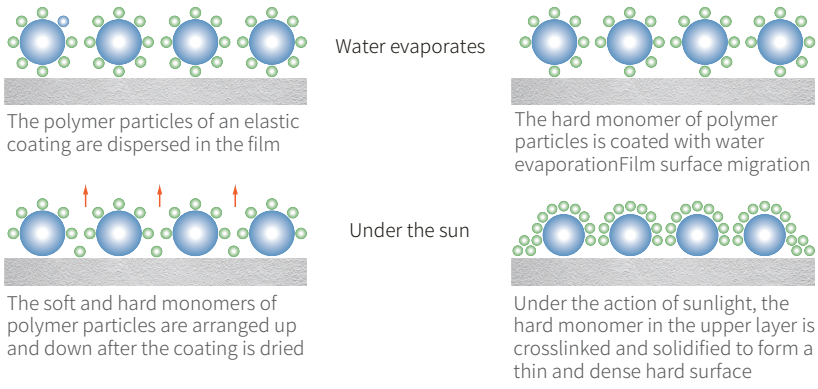


Artificial aging resistance test of various elastic coatings



The polymer particles of an elastic coating are dispersed in the film

Film forming principle of core-shell type elastic coating



The polymer particles of an elastic coating are dispersed in the film

The hard monomer of polymer particles is coated with water evaporationFilm surface migration

The soft and hard monomers of polymer particles are arranged up and down after the coating is dried

Under the action of sunlight, the hard monomer in the upper layer is crosslinked and solidified to form a thin and dense hard surface

KL1901 高级抗污弹性外墙漆

KL1903 Advanced stain resistant elastic exterior wall paint

Koala advanced anti-fouling elastic exterior wall paint is an elastic coating with a good balance between film elongation and film tensile strength. Besides excellent extensibility and anti-erosion function and easy cleaning function, it strengthens the anti-pollution and anti-fouling ability of its coating film. In addition, its economical setup, as well as mature product technology, has a wide range of applications.

The typical characteristics of

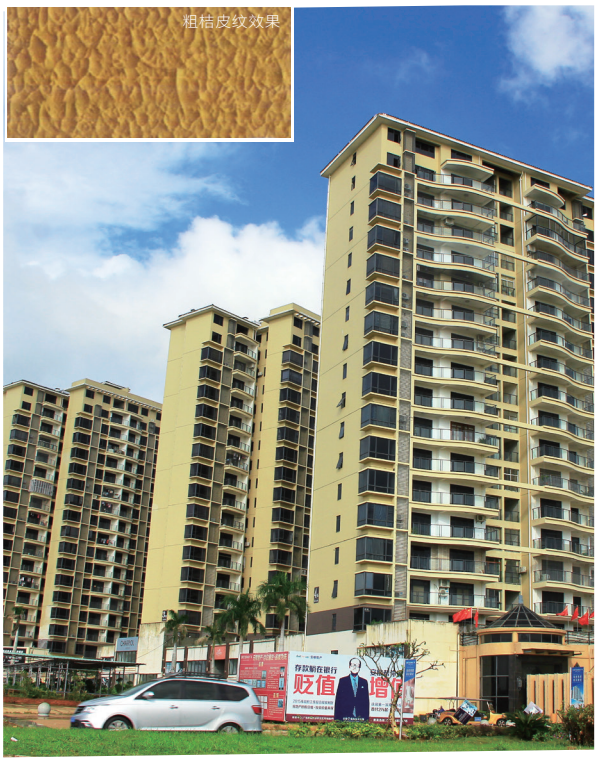
1. Good film elongation and film tensile strength.
2. Excellent weather resistance, crack resistance, stain resistance and erosion resistance.

Is mainly used

All kinds of need to have a certain degree of flexibility to solve fine cracks and anti erosion anti fouling ability is good in large external wall buildings.

The performance characteristics of

1. The elongation of the film is more than 250%, which can cover and solve the fine cracks in the wall.
2. The dense molecular structure on the surface of the coating film has excellent aging resistance, air permeability and pollution resistance.
3. Cost affordable, suitable for large real estate companies in large buildings.





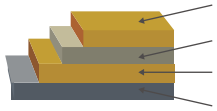
推荐施工工艺

1. Orange peel roll coating Technology (top drawing)



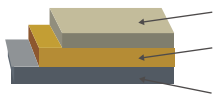
Finish: KL1901 advanced anti-fouling elastic exterior wall paint
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall

2. Orange peel Roll Coating Technology (middle drawing)



Finish: KL1901 advanced anti-fouling elastic exterior wall paint
中涂： KL1404 elastic middle layer paint
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall

3. Flat coating process



Finish: KL1901 advanced anti-fouling elastic exterior wall paint
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall

KL-1902 高弹耐污弹性外墙漆

KL1902 High elastic stain resistant exterior wall paint

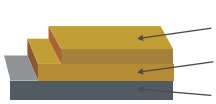
Koala Coatings R&D center uses proprietary technology to introduce siloxane functional groups through elastic silicone resin applications. Improve durability, maintain good elastic elongation at the same time, with the dust is not easy to adhere to the special performance, using silicone resin as film forming material, with excellent anti-pollution and detest water function, is a good elastic, low pollution type of single layer elastic coating.

The typical characteristics of

1. The coating has a high elongation of more than 400%, with the bridge function of covering wall cracks, to ensure the integrity of the coating appearance.
2. Core-shell coating technology, strong anti-pollution ability.
3. Introduction of siloxane functional group, with good water aversion, pollution resistance.
4. Add special anti-mildew, anti-alga additives, anti-mildew and anti-alga.
5. High weather resistance and color retention, durable elasticity.
6. Convenient construction, high coating rate.

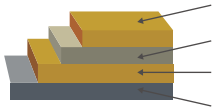
Recommended construction technology

1. Orange peel roll coating Technology (top drawing)



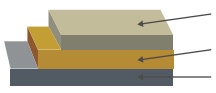
Finish: KL1902 High elastic stain resistant elastic exterior wall paint (thick type)
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall

2. Orange peel Roll Coating Technology (middle drawing)



Finish: KL1902 High elastic stain resistant elastic exterior wall paint (thin quality)
Middle coat: KL1403 middle coat
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall

3. Flat coating process

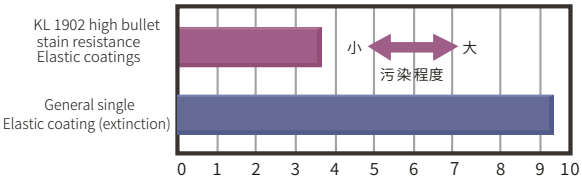


Finish: KL1902 High elastic stain resistant elastic exterior wall paint (thin quality)
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall

Is mainly used

To coating service life and cover crack ability requirements of high-grade buildings, especially for high and low temperature difference and air pollution areas.

Results of artificial anti-pollution test (carbon immersion test)



(Brightness difference)| △L |
The smaller the value, the lower the pollution level

Comparison of film surface contamination (outdoor exposure for 6 months)



KL-1902High elastic stain resistant exterior wall paint



General polyurethane resin coating



KL1903丙烯酸多功能弹性外墙漆
KL1903 acrylic multi-functional elastic exterior paint

Acrylic multi-functional elastic exterior wall paint is the classic product of treebear elastic coating system. This product adopts high-quality acrylic elastic emulsion resin and adds special high-quality anti-ultraviolet additives, which can keep the elastic elongation of the coating film for a long time, and has excellent performance in anti-erosion, light retention, color retention and weather resistance.

The typical characteristics of

1. High quality acrylic elastic resin, no matter high temperature or low temperature, can show zhuoMore film - forming, and no loss of elasticity.
2. With dense and tough elastic coating film, can fully cover wall cracks, effectively prevent Carbonization of wall concrete structure due to infiltration of rainwater.

Is mainly used

1. Due to its excellent low-temperature film forming performance and non-loss of elasticity, it is widely used, especially for areas with cold seasons and coastal salt erosion.
2. New and old walls prone to cracks.

Product characteristics

Water - soluble, thick coat, thin coat.

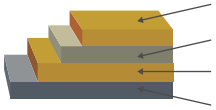
Recommended construction technology

1. Top coat drawing process (top coat drawing)



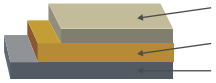
Finish: KL1903 Acrylic multi-functional elastic exterior wall paint (thick type)
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty
or
KL1203 One component moisture proof putty for exterior wall

2. Middle coat drawing process (Middle coat drawing)



Finish: KL1903 Acrylic multi-functional elastic exterior wall paint (thin quality)
Middle coat: elastic middle coat
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty
or
KL1203 One component moisture proof putty for exterior wall

3. Flat coating process



Finish: KL1903 Acrylic multi-functional elastic exterior wall paint (thin quality)
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty
or
KL1203 One component moisture proof putty for exterior wall

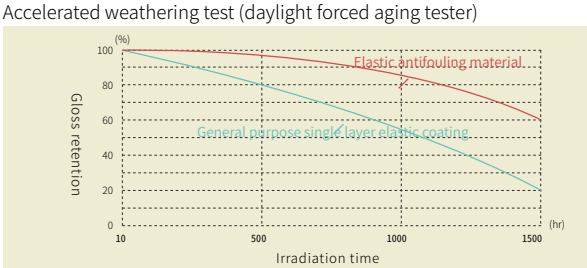
The performance characteristics of

1. The elongation rate of the coating is more than 300%, which has the ability to cover the bridge of wall cracks. It can prevent rain from entering the wall from cracks. It has the effect of beautiful wall and carbonization of concrete structure, and can also resist the erosion of sea breeze.
2. Unique low temperature elastic function, so that the coating film can effectively cover the cracks caused by wall frost heave, for the building to provide the whole season of spring, summer, autumn and winter protection.
3. The dense molecular structure on the surface of the film can effectively block water, but allow a small amount of water vapor in and out, playing a waterproof and breathable role.
4. Add special antibacterial agent, can prevent mold and microorganism breeding for a long time. Ensure environmental hygiene.
5. It has excellent weather resistance.v

High weatherability

The application of bridging technology to form a low adhesion film, so that the film is difficult to adhere to dust, reduce pollution. Promote contamination test results.

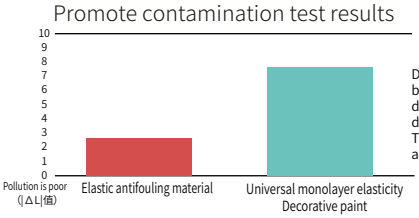
Accelerated weathering test (daylight forced aging tester)



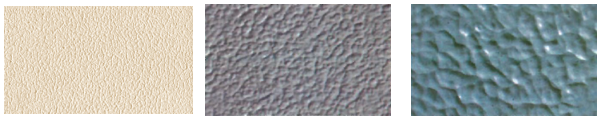
Low polluting

The application of bridging technology to form a low adhesion film, so that the film is difficult to adhere to dust, reduce pollution. Promote contamination test results.

Promote contamination test results



Determination of polluting tests before and after test as pollution | delta L | (the absolute value of difference as | delta L | lightness). The smaller the value, the better the antifouling performance.



Small orange peel effect | Orange peel effecta | Large orange peel effect

树熊水性耐候型涂料

WATER-BASED WEATHER-RESISTANCE PAINT

The development direction of exterior wall building coating is to develop high performance, health and environmental protection exterior wall building coating, that is, high weather resistance, high stain resistance, high color retention and environmental health. At present, the exterior wall coating products mainly promoted by many brands on the market, although the conventional water-based architectural coating has been very popular, there are still many problems in color retention, climate aging resistance, durability and many other aspects, resulting in the use of exterior wall coating decorative appearance is not ideal in recent years. Although 3 minutes coating 7 minutes construction, but as specialized research and development production and application is an organic whole for the manufacturer, roll out really have 6 years even 15 years of high endurance water resistance coating is imperative.

The acrylic resin water-based exterior wall coating and silicone water-based exterior wall coating developed by Koala Coating RESEARCH and development Center have excellent light retention, color retention, artificial aging resistance and other comprehensive properties, and have remarkable physical properties in film forming, water resistance, pollution resistance and extreme weather conditions.

Comparison of main characteristics of weatherability exterior wall coatings

The product name	The typical characteristics of	Durability (year)	The page number
KL1101 Advanced engineering paint for exterior walls	Strong covering power, high coating rate	6	06
KL1102 Pure acrylic all-weather waterborne exterior wall paint	Strong adhesion, colorfast and excellent outdoor durability	10	07
KL1103 High weather resistance self cleaning water based exterior paint	Full film, good air - trapping, self - cleaning pollution prevention	12	08
KL1104 Rare earth energy saving exterior wall paint	Heat insulation, energy saving, self-cleaning, weather resistance	12	09



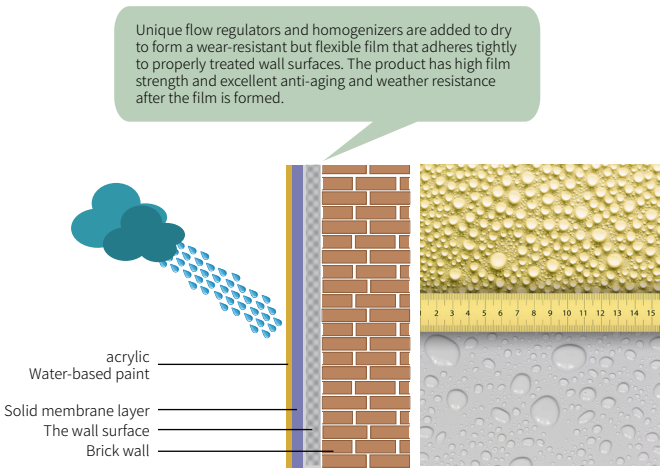
KL1101 高级外墙工程漆

The product is a water-based exterior wall coating with acrylic emulsion as main raw material and high quality additives. Excellent light and color retention and durability of the product coating film, rich paint film, to ensure that the building exterior wall bright as new, the product is an economic product of exterior wall coating, suitable for large-scale urban renovation, renovation projects and other real estate projects.

The performance characteristics of

1. Using acrylic emulsion as the base material, adding high quality additives, light and color retention is excellent.
2. Full coating film, high coating rate, effectively reduce the use of cost.
3. After brushing this product, the wall is smooth and clean, easy to clean, the appearance of the coating is better, prolong the renovation cycle, reduce the number of renovation, suitable for large-scale use of real estate business, to create more direct economic benefits for users.
4. Excellent stain resistance.





The typical characteristics of

Full coating film, high coating rate, excellent light and color retention.

Is mainly used

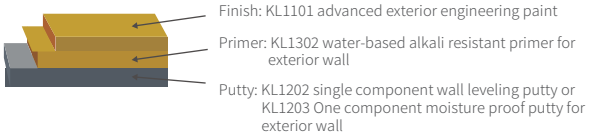
Large real estate projects, especially economic real estate projects and government renovation projects.

Product characteristics

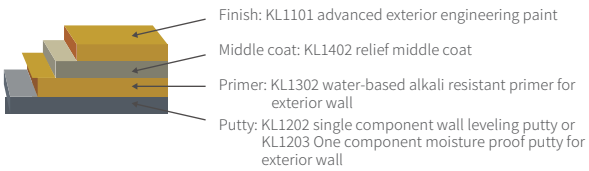
Water soluble, matte, color, single component.

Recommended construction technology

1. Flat coating process



2. Embossing process (middle spraying point)





KL1102纯丙全天候水性外墙漆

KL1102 Pure acrylic all-weather waterborne exterior wall paint

This product is a pure acrylic exterior wall coating made of acrylic ester, methacrylate monomer, high quality emulsifier and auxiliary agent from abroad, and advanced "network interpenetration" synthetic process.

The paint film of this product has excellent chemical stability, mechanical stability and freezing-thawing stability. Special anti-uv additives are added to make the product withstand the comprehensive test of various natural conditions and environments.

The performance characteristics of

1. High weather resistance, can withstand fierce sunlight, good light and color retention.
2. Excellent water resistance, alkali resistance, acid resistance, long-term protection of buildings, film is not easy to peel off.
3. Strong adhesion, strong washing resistance.
4. Contains special antiseptic and mildew agent, in the humid subtropical environment, can also prevent mold, algae breeding.



The typical characteristics of

With strong adhesion, aging resistance, no yellowing, no fading and excellent outdoor durability, the service life of 10 years.

Is mainly used

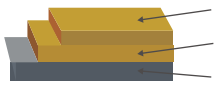
All kinds of non-chemical tracing contact with the building's inner and outer walls, such as: apartment buildings, villas, mansions, etc.

Product characteristics

Water soluble, matte/glossy, color, one component.

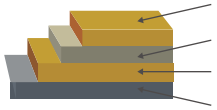
Recommended construction technology

❶ The performance characteristics of



Finish: KL1102 pure acrylic all-weather waterborne exteri or wall paint
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall

❷ Embossing process (middle spraying point)



Finish: KL1102 pure acrylic all-weather waterborne exteri or wall paint
Middle coat: KL1402 relief middle coat
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling putty or KL1203 One component moisture proof putty for exterior wall



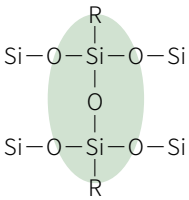
KL1103 高耐候自洁水性外墙漆

KL1103 High weather resistance self cleaning water based exterior paint

The product is modified by organic silicon and has good toughness. The paint film surface can keep the appropriate hydrophilic, lipophilic balance, has excellent stain resistance.

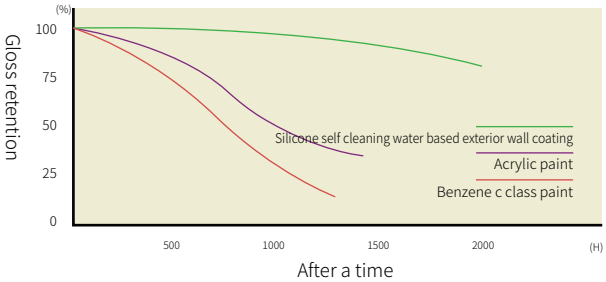


Recommended construction technology



Si-O-Si and glass crystal structure is the same, the combination of siloxane can give full play to the advantages of the film.

Siloxane binding



After a time

The typical characteristics of

Paint film has hydrophilic, lipophilic balance function excellent station fouling resistance, service life of more than 12 years.

Is mainly used

High - grade buildings, viaduct, especially high - grade large real estate with high pollution prevention requirements.

The performance characteristics of

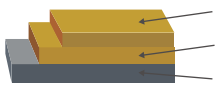
1. The chemical structure of siloxane makes the film chemically stable and durable.
2. Specific chemical structure, can form dense and tough coating film, prevent O_2 and CO_2 in the air from invading the wall, protect the building.
3. Excellent air permeability, especially suitable for external insulation wall.
4. Good chemical erosion resistance, suitable for harsh environment.
5. Film density and low electrostatic, reduce dust adhesion, keep clean and beautiful.

Product characteristics

Uv resistance, high weather resistance, anti-aging, excellent anti-pollution, service life of more than 15 years

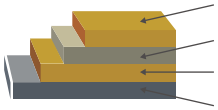
Recommended construction technology

❶ Flat coating process



Finish: KL1103 high weather resistance self cleaning water based exterior wall paint
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling puttyor KL1203 One component moisture proof putty for exterior wall

❸ relievo



Finish: KL1103 high weather resistance self cleaning water based exterior wall paint
Middle coat: KL1402 relief middle coat
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1202 single component wall leveling puttyor KL1203 One component moisture proof putty for exterior wall

KL1104 稀土节能外墙漆

KL1104 Rare earth energy saving exterior wall paint

Rare earth energy-saving exterior wall paint is a functional coating with high solar reflection ratio, near-infrared reflection ratio and hemispheric emissivity, which is made of synthetic resin as the base material and added with energy-saving rare earth, functional pigment filler and auxiliary agent. It is applied to the surface of buildings and can achieve heat insulation effect. Compared with ordinary coating, the reflective heat insulation coating of the same color can increase the heat insulation performance of the envelope structure, and according to the increased heat insulation performance, the thermal resistance can be converted into the equivalent energy saving effect, which effectively saves the investment cost of external wall energy saving.

The solar irradiation that can be received on earth is composed of ultraviolet light, visible light and near infrared, and the total energy can be up to more than 1000W/㎡.

In the ultraviolet region, the wavelength is 0.2-0.38μm, and the energy is about 5%

The wavelength of visible region is 0.38-0.76μm, and the energy is about 45%

The wavelength of the infrared region is 0.76-2.5μm, and the energy is about 50%

Koala reflective insulation coating included

Koala rare earth reflective heat insulation modified energy saving coating, koala reflective heat insulation texture coating, koala reflective heat insulation color stone coating

Product features

1. Efficient reflection technology to achieve thermal insulation

   It can effectively reflect the near-infrared heat energy of sunlight, and effectively reduce the moisture content of the wall structure through the waterproof and moisture resistance function of the coating, so that the heat absorption and transfer of the wall can be well controlled, so as to reduce the indoor temperature rise and save the energy consumption of air conditioning and refrigeration.

2. Heat insulation, waterproof and breathable technology, improve the comfort of human body in the room

   By regulating the wall temperature and humidity to improve the indoor temperature and humidity environment, to create a more natural and comfortable situation environment.

3. Super hydrophilic interface provides long - term building protection

   The application of photocatalytic technology can decompose the pollutants on the surface of the coating film in time and effectively, form the superhydrophilic effect, and achieve the effect of self-cleaning under rain water erosion to improve the long-term reflection performance of the coating system.

4. Ultra wide range of visual color, perfect architectural appearance

   The use of special infrared reflective color filler, in the realization of professional color collocation at the same time, but also improve the reflectivity of paint to the infrared, so that the building to achieve energy saving and color balance unity.



树熊仿金属漆系列

KOALA IMITATION METALLIC PAINT SERIES

The original word "Metallic Paint" is also called Metallic flash Paint. In view of the traditional metal paint weak water resistance, weak alkali resistance, can only be sprayed on the wall fatal defects, Koala paint RESEARCH and development Center successfully imported strong water resistance, strong alkali resistance organic functional groups, so as to completely solve the defects of the traditional metal paint.

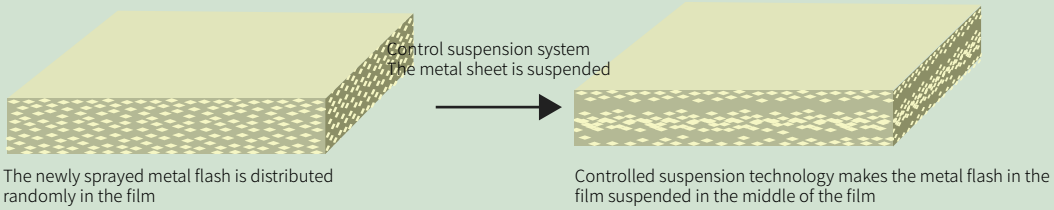
Koalas in the metallic paint series products have been paired with the effect of metal powder added small aluminum particles at the same time, the light beam to aluminum grains, not only can make stunning after coating, the coating surface, and because of the light refraction in different point of view, by aluminum reflected through the paint film, make the overall appearance like a shiny metal samples, Give people a kind of joyful, light, novel feeling.

Koarra paint metal flash paint uses automatic suspension control technology to promote the metal flash in the film to suspend in the film and arrange in order, and then through the control technology to change the shape and size of aluminum particles, make the metal flash of the film of metal paint more soft.

Koala durable paint main characteristics comparison:

The product name	The typical characteristics of	type	Durability (year)	The page number
KL1501 imitation curtain wall carbon metal paint	Super self-cleaning ability, perfect display of metallic luster	water-based	15	11

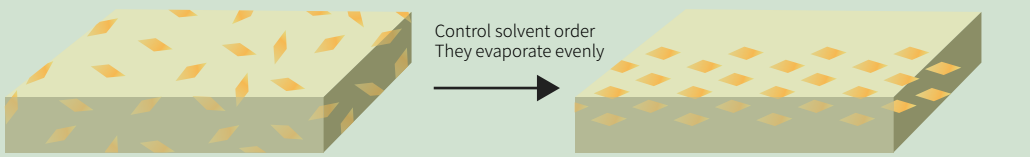
Koala metal paint metal flash film suspension technology illustration



The newly sprayed metal flash is distributed randomly in the film

Controlled suspension technology makes the metal flash in the film suspended in the middle of the film

Koala metal paint metal flash sheet arrangement end meaning



The newly sprayed metal flasher does not need to be aligned in the film

Through solvent orderly and uniform play power, promote the metal flash film in the film orderly arrangement

KL1501 仿幕墙碳金属漆

Koala imitation curtain wall carbon metallic paint choose tetrachloroethylene fluorocarbon resin production, add the excellent effect of metal powder at the same time to join the tiny aluminum particles using automatic suspension control technology makes the metal powder and orderly arrangement, and then by changing the shape and size of aluminum particles of control technology, makes the product has a soft metallic luster, and have up to 20 years of artificial ageing resistance, It is the first choice for all kinds of high-grade buildings.



The typical characteristics of

It combines the highest performance of fluorocarbon coatings with the best metallic gloss.

The performance characteristics of

1. Tetrafluoroethylene resin as the base material, with high durability and uv resistance, can prevent acid rain corrosion discoloration phenomenon.
2. Extremely small oxygen permeability coefficient, give full play to the excellent anti-corrosion function, best suited to protect metal substrates and prevent concrete carbonization.
3. Durable, pollution resistant, can block rain, scale and other intrusion, easy to clean.



Is mainly used

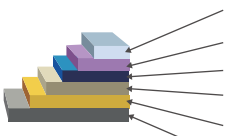
High-end public buildings, such as finance, telecommunications, convention center, government buildings, etc.

Product characteristics

Waterborne, color, one component.

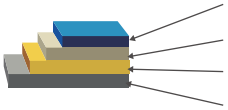
Recommended construction technology

1 Flat coating process



Finish coat: KL1788 fluorocarbon finish coat
Finish: KL1501 imitation curtain wall carbon metal paint
Primer: KL1308 fluorocarbon primer
Greasy 2: KL1201 one component water polishing putty
KL1204 two-component elastic anti-crack exterior wall putty
Base: cement mortar base surface

2 Metal component spraying process



Finish coat: KL1788 fluorocarbon finish coat
Finish: KL1501 imitation curtain wall carbon metal paint
Primer: KL1308 fluorocarbon primer
Base: rust - resistant epoxy zinc - rich primer for steel components

树熊氟碳漆系列

KOALA FLUOROCARBON PAINT SERIES

In recent years, fluorocarbon resins and fluorocarbon coatings have gained rapid development in China, and have been widely used in aviation, construction, steel structure and anticorrosion fields. With the expansion of the application of fluorocarbon resin in coatings, its quality is gradually improved, and the series of resin is gradually improved.

The fluorocarbon coatings produced by Koala Paint co., Ltd. are characterized by excellent weather resistance, chemical resistance, moisture resistance and pollution resistance.

The fluorocarbon coating products produced by Koala Bear Coatings have fluorine content of more than 10%, and the c-F bond with carbon atoms can reach 485KJ/mol.

Koala oil durable paint main characteristics comparison:

The product name	The typical characteristics of	Suitable substrate	attribute	Durability (year)	The page number
KL1502 waterborne fluorocarbon ceramic double deck paint	The film feels fine and durable	Cement base	water-based	20	13



KL1502 陶瓷复合水性氟碳漆
KL1502 ceramic composite waterborne fluorocarbon paint

High performance, environmental protection and functional-ization are three major trends in the development of global coatings.

The crosslinking system of normal temperature curing fluoro-carbon coating not only brings excellent performance for fluorocarbon coating, but also increases the difficulty of material construction due to the impermeability of cement base material. As imitation aluminum plate process, its putty layer to meet the requirements of flatness, thickness in 3-5mm, at the same time the moisture content of the base is less than 8% / also need drying time, under the condition of construction in a rush, the basic alkaline coating film is easy to produce bubbles, and cause the coating film pan alkali whitening and other pathological.

To this end, koala coatings introduced Japan Daikin co., ltd. water-borne fluorocarbon resin production of water-borne fluorocarbon coating added high-performance surface hydro-philic coating, to achieve a good self-cleaning function.

The typical characteristics of

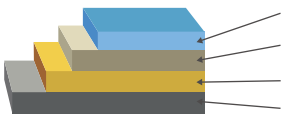
High anti-corrosion, high weather resistance, self-cleaning function, uv resistance above 10,
Do not drop powder, do not crack, do not fall off, 20 years do not change color

Is mainly used

High grade residence, especially suitable for humid and foggy areas and coastal areas.

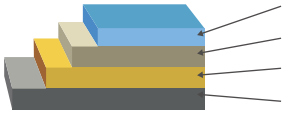
Recommended construction technology

❶ Flat coating process



Finish: KL1502 ceramic composite water-borne fluorocarbon paint
Primer: KL1302 water-based alkali resistant primer for exterior wall
Putty: KL1201 water-based polishing putty
Putty: KL1204 two-component elastic anti-crack exterior wall putty

❷ Orange peel pattern technology (middle drawing)



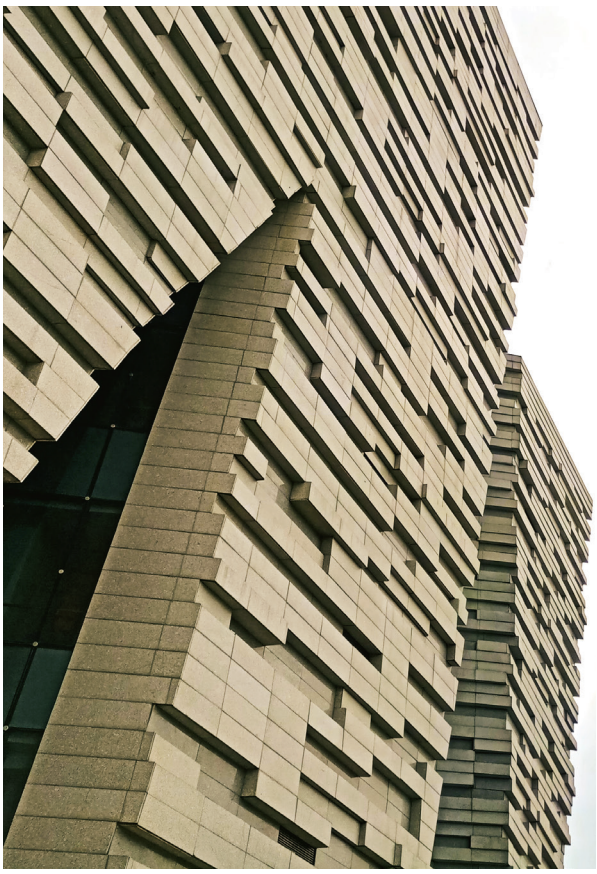
Finish: KL1502 ceramic composite water-borne fluorocarbon paint
Primer: Intermediate coating
Putty: KL1302 water-based anti-alkali primer for exterior wall
Putty: KL1204 two-component elastic anti-crack exterior wall putty

Product characteristics

Water soluble, color, one component.

The performance characteristics of

1. Using excellent water-based fluorocarbon resin as the base material, so that the coating has strong chemical stability, thus has excellent uv degradation resistance and super weather resistance.
2. The dense molecular structure of fluorocarbon coating determines that the coating film is hard, and the induced voltage on the surface of the coating film is high (high resistivity), which is not easy to cause static electricity, and has strong antifouling and hydrophobicity.
3. The dense film feels smooth, and the surface attachment can be washed with water or wiped with thinner.
4. Fluorine-containing coating prepared with fluorine-con-taining resin has excellent chemical and corrosion resistance after crosslinking and curing.
5. The product also has excellent mildew resistance and flame retardant properties, making it ideal for humid and foggy climates and coastal environments.



树熊真石漆系列

KOALA NATURE STONE PAINT SERIES

Natural stone is often used as architectural decoration material because of its colorful and textured appearance. But natural stone material quality is heavier, increased the load of wall body, there are a lot of unsafe factors, some stone material contains trace radioactive element additionally, cause harm to human body, so its application was subjected to certain limitation.

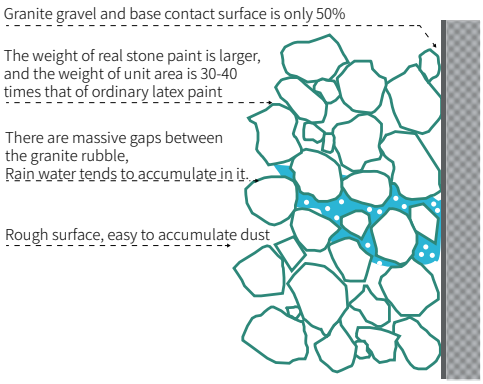
The decorative effect of koala stone paint is similar to that of natural marble paint. Natural granite gravel and stone powder are selected as the main materials, and synthetic resin emulsion is the main binder, supplemented by a variety of additives.

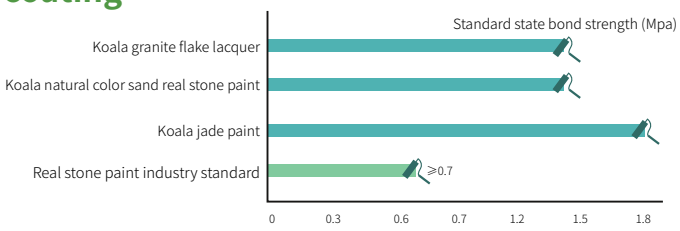
Buildings decorated with real stone paint give a natural, elegant and solemn beauty, with strong imitation stone and European style effect, very suitable for indoor and outdoor decoration of buildings, if used in curved buildings, more can create a vivid and vivid, return to nature of the extraordinary effect.

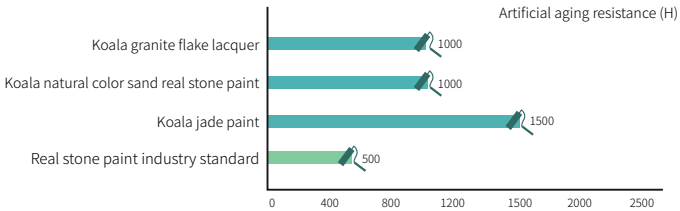
Comparison of the main characteristics of koala lacquer:

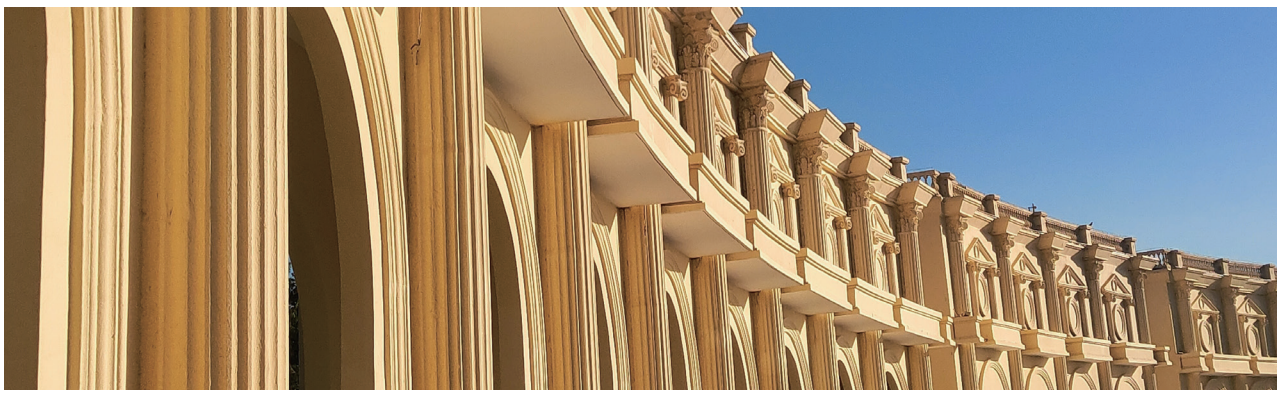
The product name	The typical characteristics of	Water resistance and anti-whitening	Uv and yellowing resistance	Durability (year)	The page number
KL1701 natural color sand real stone paint	Natural color sand stone material feeling effect	optimal	optimal	10	15
KL1702 Granite flake lacquer	Unique natural stone rock texture effect	optimal	optimal	10	16
KL1703 jade paint	Color sand and self-cleaning are preferred	optimal	optimal	15	17

Structure diagram of real stone paint coating









KL1701天然彩砂真石漆
KL1701 natural color sand real stone paint

Koala natural color sand really stone paint, crushed material, made of natural granite with high polymer waterproof model made from acrylic emulsion as binder, the product does not add any color paste, mainly in a variety of granite debris color as main color system, so good, like natural stone outdoor artificial aging resistance, spraying effect rich expressions, stereo sense is strong, good plasticity, With 10 years of durability.

The typical characteristics of

The use of natural color sand, strong texture, crack resistance, sound insulation, good flexibility.



The performance characteristics of

1. The spraying effect is dignified and massy, fully showing the rich texture of natural stone.
2. Waterproof acrylic emulsion synthesized by polymer as adhesive, long-term rain does not fade, ultraviolet radiation does not fade, use more durable.
3. Using natural granite granules to show the color, not easy to fade, keep a long time beautiful.
4. Effectively block water into the wall, prevent alkaline material precipitation, protect the building from carbonization.
5. Available in a variety of colors and effects for arbitrary choice.

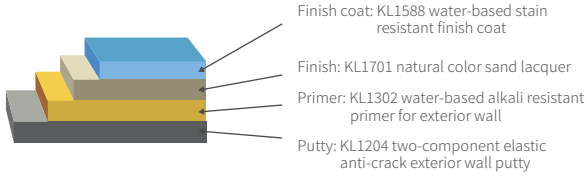
Is mainly used

High-end residential and mid - to high-end public buildings.

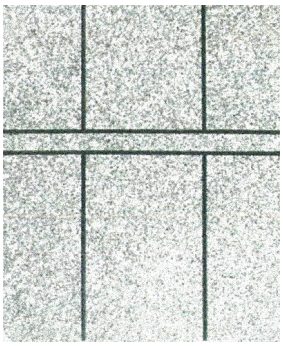
Product characteristics

Water soluble, color, one component, fine sand/coarse sand.

Recommended construction technology







KL1702 花岗岩岩片真石漆
KL1702 Granite flake lacquer

Koala imitation granite rock really stone paint, using natural colored sand, hydrophobic pure acrylic polymer emulsion, sheet and various additives synthesis, has a super secret as a sex and weatherability, construction is convenient, with simple technology can achieve "single gun and colorful" have better effect, has the natural color of natural granite stone is elegant, give a person with vivid, return to natural feeling, Completely comparable to natural granite texture, with 10 years of durability.

The typical characteristics of

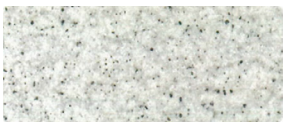
Unique natural stone realistic effect.

The performance characteristics of

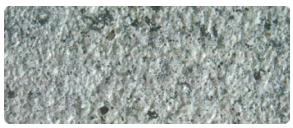
1. It can fully show the natural flake texture and texture of granite.
2. Adopt natural granite grain and special rock flake as developing color system, do not add any color paste, not easy to fade.
3. Waterproof silicone acrylic emulsion synthesized by polymer as the adhesive system, can ensure long-term rain does not turn white, ultraviolet radiation does not turn yellow.
4. Water-repellent coating can effectively block water into the wall, prevent alkaline material precipitation, protect the building from carbonization.
5. Strong adhesion, and the weight is far less than stone, so it is very suitable for spraying on the external wall insulation, to replace the traditional stone.







Granite texture effect



Granite texture effect

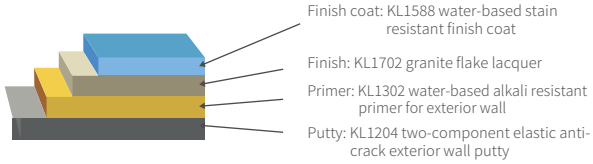
Is mainly used

High-grade public buildings (such as hotels, office buildings, government buildings), villas, etc.

Product characteristics

Water soluble, color, one component, fine sand/coarse sand.

Recommended construction technology



KL1703 玉石漆
KL1703 jade paint

Jade paint adopts natural basalt gravel, natural color sand and silicone modified acrylic emulsion as adhesive material. It has the same texture of natural stone and granite. Water environmental protection, realistic stone imitation effect, regional climate is widely applicable. Its decorative stone imitation and European style effect is very strong, high-grade residential areas, villas and other popular decorative materials.

Jade paint has the advanced protection functions of anti-fouling and self-cleaning, waterproof and anti-corrosion, strong and anti-impact.

The typical characteristics of

Excellent anti-fouling and self-cleaning performance, aging resistance and colorless



The performance characteristics of

1. Stain resistance, self-cleaning, no fading, no aging, excellent weather resistance.
2. Highly simulated natural stone and replace natural stone, color selection is richer.
3. Waterproof and corrosion resistant, mildew resistant and flame retardant, suitable for all kinds of extreme climate.
4. The coating is strong and tough, resistant to cracking and impact.
5. Can be applied to special-shaped wall.
5. Good construction and applicability.

Is mainly used

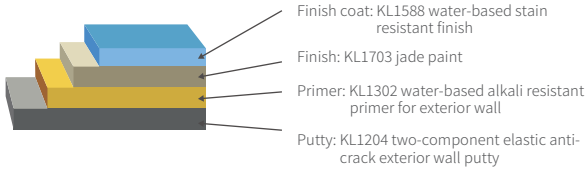
Suitable for external wall protection period and decorative beauty of higher, pollution resistance and longer use of the building

Product characteristics

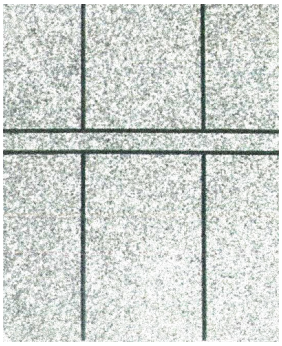
Water soluble, color, one component, fine sand/coarse sand.

Recommended construction technology

1. The construction technology







树熊质感涂料系列

KOALA TEXTURE COATING SERIES

This product is a thick paste decorative coating for exterior walls, which has the advantages of abrasion resistance and cracking resistance. Its flexible characteristics can effectively bridge the cracking of walls, and its excellent anti-ultraviolet radiation function is especially suitable for highland areas. Elegant style and changeable texture make the building full of unrestrained and romantic Nordic sentiment! Let the design play infinite originality, turn mediocre metope into magic. Through three-dimensional natural texture, highlight the aesthetic artistic style of architecture. Flexible and heavy materials with different tools and construction techniques can create different texture effects, so that the appearance of the building is unique, active and individual.



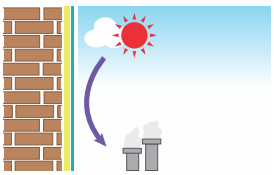
Product performance

Koala sandstone texture coating through special construction technique coating on the wall to form a different color, different texture texture, improve the artistic sense of the building! It has both decoration function and protection function. Texture sandstone coating after painting on the surface of the building to form a certain thickness and flexibility, as well as abrasion resistance, pollution resistance, uv radiation resistance, climate change resistance, bacterial erosion and erosion resistance of continuous film, Thus play to reduce or eliminate the atmosphere, moisture, dust and microbial damage to the building and prevent in the use of the process of oil pollution and other pollution sources. It can bear constant friction and external force, prolong the service life of the building, and it is also the best surface material for the building external wall insulation system, playing a protective and enhancing role.

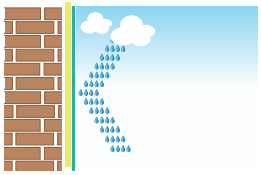
If the base appeared cracks, ordinary latex paint film thin, flexibility is not enough, can not solve this problem and joint surface layer latex paint cracking. But thick paste texture coating has a certain thickness and flexibility can bridge cracks, cracks to the surface layer.

Koala texture decorative paint technical specifications

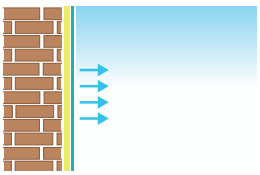
performance		Technical standard index	The readings
In-package condition		There is no hard lump, and the mixture is uniform	Qualified by
Coating appearance		Appearance of the normal	Qualified by
The drying time		Table 4h	4 hours
construction		Coating barrier	Qualified for construction
Resistance to cracking during initial drying		3H No crack	qualified
Low temperature stability (3 cycles)		Don't spoil	qualified
Thermal storage stability (15d)		No agglomeration, mildew, coagulation and composition change	qualified
Water quantity (2H) /g		⩽ 2	0.3
Resistance to water		96 h without exception	Qualified by
Alkali resistance		96 h without exception	Qualified by
Temperature resistance of coating		5 times coating no powder, cracking, peeling, drum	5 qualified
Artificial aging resistance	pulverization⩽	Grade 0, (600H)	Grade 0, (1000H)
	discoloration⩽	Grade 1, (600H)	Grade 0, (1000H)
	The appearance change	No bubbling, no peeling, no crack	qualified
Flexibility (10°C, R=25mm)		No crack	No crack
Bond strength (MPa)	standard	⩾0.6	1.68MPa
	After flooding	⩾0.4	1.29MPa



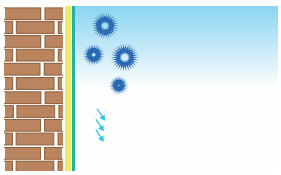
Protect against ultraviolet rays. Acid and alkali resistant, can effectively reduce and resist the erosion of the building by harmful substances discharged from the factory.



Excellent water and moisture resistance, so the surface is not easy to grow moss.



The coating has air permeability and moisture resistance to prevent coating bubbling, cracking and peeling phenomenon.



Suitable for all kinds of severe weather conditions, excellent weather resistance, no color change. Can resist certain friction and external forces.

KL1601 树熊砂岩质感涂料
KL1601 Koala sandstone texture paint

Koala texture coating is composed of fine graded natural sand, modified emulsion as binder and other additives. Granular texture coating particle size uniform, closely arranged orderly, can create a Mediterranean architectural style of simple texture. The product is specially designed for viscosity structure, flexibility and impact resistance. The coating has excellent weather resistance, water-repellent permeability, and can effectively bridge and cover the fine cracks of the wall body



Small particles　In the particle　Larger particles

Small particles	
Make effect	Flat rub (dosage 1.8kg-2.2kg /m2)
Construction tools	Batch knife, washboard (10cm*10cm fiberboard)
Construction specifications	Usually from left to right, one person scraping and the other person rubbing clockwise with a washboard to uniform texture, thickness is appropriate to particle size, up and down to wet touch too wet can not dry side interface
Acceptance criteria	Uniform coating, no leakage bottom, shadow, hair and interface phenomenon

Make effect	Flat spray (dosage 1.8kg-2.2kg /m2)
Construction tools	Texture spray gun (6mm caliber)
Construction specifications	Medium discharge, evenly sprayed to the required texture, up, down, left and right must be wet touch too wet, do not dry side interface
Acceptance criteria	Uniform coating, no leakage bottom, shadow, hair and interface phenomenon

In the particle	
Make effect	Flat rub (dosage 2.0kg-2.2kg /m2)
Construction tools	Batch knife, washboard (10cm*10cm fiberboard)
Construction specifications	Usually from left to right, one person scraping and the other person rubbing clockwise with a washboard to uniform texture, thickness is appropriate to particle size, up and down around wet touch too wet, can not dry edge interface
Acceptance criteria	Uniform coating, no leakage bottom, shadow, hair and interface phenomenon

Larger particles	
Make effect	Flat rub (dosage 2.2kg-2.5kg /m2)
Construction tools	Batch knife, washboard (10cm*10cm fiberboard)
Construction specifications	Usually from left to right, one person scraping and the other person rubbing clockwise with a washboard to uniform texture, thickness is appropriate to particle size, up and down around wet touch too wet, can not dry edge interface
Acceptance criteria	Uniform coating, no leakage bottom, shadow, hair and interface phenomenon

Koala texture coating application effect


Sandstone type


Sandstone type


Sandstone type


Sandstone type


Sand scraper - twill


Sand scraper - straight grain


Sand scraping - vertical and horizontal lines


Sand scraper - twill









Koala texture coating application effect

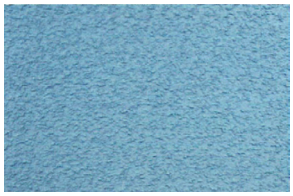

The rose tattoo


The rose tattoo


Bark grain


Bark grain


Fantasy textures


Fantasy textures


Fantasy textures


Fantasy textures



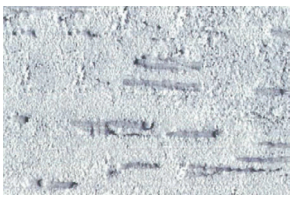




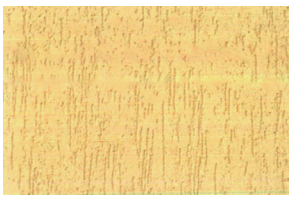


Koala texture coating application effect


Cave rock texture


Cave rock texture


Sculpt texture


Sculpt texture


Sculpt texture


Sculpt texture


Sculpt texture


Sculpt texture











树熊岩影石系列

KOALA SAND IN WATER PAINT SERIES

Koala rock shadow stone coating effect can almost be true to the original natural granite vision, fully deduce the thick luxurious atmosphere of the building. According to the granite samples provided, various water-based colloid sols were dispersed into discontinuous and stable dispersed phases using krypton silicon emulsion as carrier by innovative colloid wrapping technology. Koala rock shadow stone coating can not only stimulate the architectural designers to create personalized and unique exterior wall modeling potential, but also has incomparable functional advantages, excellent weather resistance, adhesion and dirt resistance. In the decoration of the exterior wall, precious stone resources can be replaced with increasingly rare resources, but also with external insulation materials for professional imitation granite decoration.

Koala rock shadow stone paint decoration system features	
Environmental protection and energy saving	Break through the traditional colorful coating technology concept, using modified emulsion as the carrier, the use of innovative colloid technology, the formation of stable dispersed phase, health and environmental protection life can reach 20-25 years of water-based resin imitation granite curtain wall decoration system.
decorative	Unique customer-centric color and modeling visual system. The system provides a lot of wall imitation granite decoration expression, customers can choose personalized creative components, realistic stone imitation effect, a variety of colors, random modeling.
persistence	The durability and weather resistance of color and performance solve the problems of poor adhesion and dirt resistance and easy cracking of traditional granite imitation coatings.
Self-cleaning function	It can make the wall as new as possible, eliminating the trouble of laborious cleaning and the cost of cleaning, especially for the high-rise wall cleaning problem can be solved by a time.
security	For the dead weight of marble and granite is too large, the shadow stone coating can achieve the same decorative effect at the same time, greatly reduce the load on the bearing surface, ensure that the outer surface is safer, which is particularly important for the insulation system.
construction	The construction is convenient, only a single spraying, can complete the multi-color effect, overcome the imitation granite paint multi-color, multiple spraying can not be applied and low simulation.
economy	Compared with the stone price and construction cost of granite and marble, shadowstone coating system is more economical.

The product name	The typical characteristics of	Resistance to water and Prevent efflorescence	Uv resistance Resistance to deformation of yellow	The durability of (year)	The page number
Koala shadow stone paint	High degree of stone imitation, color plasticity, plane effect.	optimal	optimal	20-25	25
Koala rock shadow stone paint	The exterior wall coating and wool surface effect perfectly present granite and other stone effect	optimal	optimal	20-25	26

KL2001树熊理影石涂料
KL2001 Koala Shadow stone paint

Imitation smooth granite texture and effect; Liying stone imitation stone paint using color particles wrapped into the particle technology, materials at the same time into insoluble multicolor polymer colloidal copolymer particles, through one-time spraying, can create almost the same texture effect as the original stone, stone simulation degree can be comparable to real stone!

The typical characteristics of

Green, environmental protection, energy saving, lightweight without falling off hidden danger:

Green environment-friendly water-based coating, pure water-based formula, green zero pollution, under the premise of ensuring the beauty of the building, effectively reduce the waste of stone, light weight and high safety, the main load of the building is very low, far lower than the collage tile and external wall stone dry hanging, no falling injury safety hazards.

The performance characteristics of

The temperature of 5 °C or higher; Humidity of 85% or less;

Product storage conditions:

Store in a cool and dry place with good ventilation and avoid direct sunlight at 5~35°C. Keep container tightly sealed, should be separated from strong acid, strong alkali, strong oxidant, food and animal feed storage.

性能特点

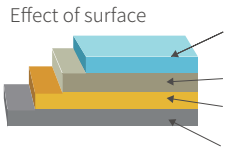
1. Construction base surface is not limited, applicable to the construction of various special-shaped components:
Water bag water multi-color paint construction of high tolerance, convenient construction, simple process, suitable for any complex modeling surface or curved surface, can be in a variety of special-shaped building components surface construction.

2. Good decorative, realistic reduction of stone texture, rich color:
Water wrapped water multi-color paint its multi-level granite coating grain and traditional exterior wall coating and collage tile style is different, can fully show the natural stone texture, realistic effect, optional color diversity.

3. Super weather resistance and pollution resistance:
Strong adhesion, pollution resistance, less construction defects.

4. High weather resistance and aging resistance, not easy to fade, durable:
Durable, strong adhesion, not easy to fade, high weather resistance and aging resistance.

Recommended construction technology



Cover: Koala shadow stone cover coating (reference dosage 0.15-0.2kg/m2)

Middle layer: Koala shadow stone main material (reference dosage 0.2-0.9kg/m2)

Primer: Koala shadow stone special primer (reference dosage 0.15-0.25kg/m2)

Putty: koala two-component elastic anti-crack exterior wall putty

process	The name of the material	Theory of dosage	Construction tools
Basic level processing	Imitation stone lacquer special putty	About 2.5-4 kg / ㎡	Batch of knife
At the end of the oil	Special alkali resistant sealing primer for exterior wall imitation stone paint	About 0.125 kg / ㎡	Roller, spray gun
primer	Imitation stone paint with the same color bottom coating	About 0.2 kg / ㎡	Roller, spray gun
Advocate material	Rock color stone imitation stone paint main material	0.2-0.9kg/m2	Special gun
The surface oil	Imitation stone paint special, finish oil	About 0.125 kg / ㎡	Roller, spray gun

Composite coating Project	indicators
Coating appearance	Paint film appearance is normal, compared with the agreed standard sample, color, pattern, etc., no obvious difference
Alkali resistance (48H)	There is no abnormal
Water resistance (96H)	There is no abnormal
Washing resistance/times ≥	2000
Crack covering capacity (standard state) /mm ≥	0.5
Acid rain resistance (48H)	There is no abnormal
Resistance to wet, cold and heat cycling (5 times)	There is no abnormal
Stain resistance/grade	2
Resistance to artificial climate aging	1000H no foaming, no peeling, no crack, no powder, no obvious discoloration, no obvious loss of light

KL2002树熊岩影石涂料
KL2002 Koala Rock Shadow Stone paint

Koala rock shadow stone coating is a kind of multi-color all-water-based coating with one time spraying. According to the granite samples provided, various water-based coloring base materials are dispersed into discontinuous and stable water-coated sand dispersed phase with modified emulsion as the carrier by innovative colloid wrapping technology. Using scientific construction method, forming fine and colorful particles, realistic granite effect, in the visual interface can be true to the real, wonderful nature. Koala rock shadow stone coating can not only stimulate the architectural designers to create personalized and unique exterior wall modeling potential, but also has incomparable functional advantages, high elasticity, excellent weather resistance, adhesion and dirt resistance. In the decoration of the exterior wall, precious stone resources can be replaced with increasingly rare resources, but also with external insulation materials for professional imitation granite decoration.

The typical characteristics of

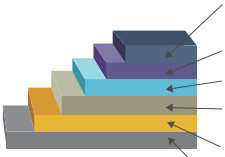
Create a stone texture effect, and the real stone wan Mei.
Can achieve 99% stone effect.

The performance characteristics of

1. **Simple construction: the use of special coating gun single gun spraying.**
2. **Strong decoration: the color can imitate natural granite, not affected by the basic surface modeling, can be arbitrarily coated for realistic hair surface effect.**
3. **Cost-effective: excellent paint characteristics and imaginative texture, create a whole new concept of exterior wall paint, the price is far lower than granite, marble price.**
4. **Flexibility: excellent combination of different metope, can effectively cover the fine cracks on the metope.**
5. **High weather resistance: high weather resistance and durability, up to 20-25 years.**
6. **High stain resistance: High resistance to dust and acid and base compounds.**
7. **Thin and light coating: compared with the traditional granite, curtain wall, etc., its coating is thin, light and small weight, will not affect the bearing of the building (is 1/6 of the ordinary true stone; Dry hanging stone 1/40; 1/20 of the face brick).**

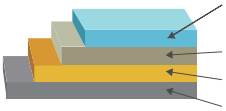
Recommended construction technology

Hair side effect



Cover: Koala rock shadow stone cover coating (reference dosage 0.15-0.2kg/m2)
Finishing paint: Koala rock shadow stone main material (reference dosage 1.2-2.5kg/m2)
Middle layer: Koala rock shadow stone plane middle layer material (reference dosage 0.12-0.15kg/m2)
Middle layer: Koala rock shadow stone plane middle layer material (reference dosage 0.12-0.15kg/m2)
Primer: Special primer for koala rock shadow (reference dosage 0.12-0.14kg/m2)
Putty: koala two-component elastic anti-crack exterior wall putty

Effect of surface

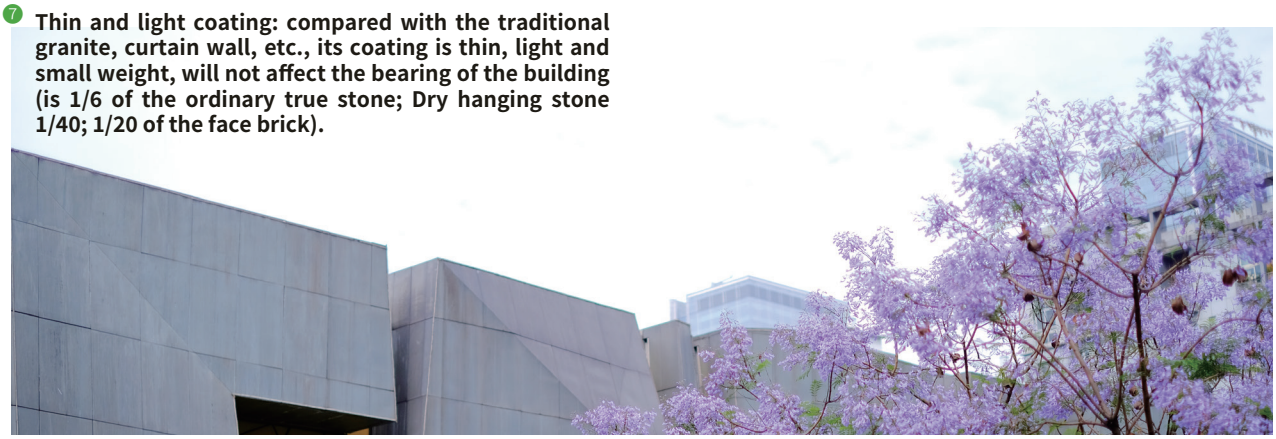


Cover: Koala rock shadow stone cover coating (reference dosage 0.15-0.2kg/m2)
Middle layer: Koala shadow stone main material (reference dosage 0.2-0.9kg/m2)
Primer: Special primer for koala rock shadow (reference dosage 0.12-0.14kg/m2)
Putty: koala two-component elastic anti-crack exterior wall putty

Product characteristics

Water soluble, color, thin/thick, one component.







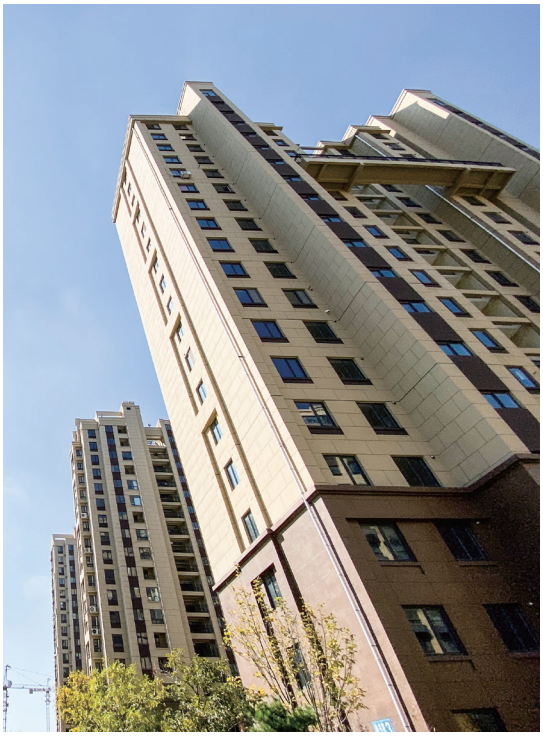
建筑外墙适用面层涂料

树熊仿砖涂料系列

KOALA TEXTURED WALL PAINT SERIES

Koala imitation brick coating is a new exterior wall decoration product specially designed to replace the traditional exterior wall brick. The product has light weight, rich color and texture, and high imitation coating effect. Its decorative effect is comparable to all kinds of exterior wall bricks, and it is well received by project owners and designers.

Since wall insulation has been widely implemented, the use of wall tiles has been restricted or even banned in more areas. Because in the external insulation of the external wall on the wall of the brick, with a greater potential off. Compared to concrete base, exterior insulation base is less strong and therefore less able to withstand up to 30-50 kg/m2 of exterior bricks. Koala imitation brick for building energy saving, it can be perfectly matched with external insulation, so that users both enjoy the beauty of the wall brick, but also get the benefit of energy saving.



Koala imitation brick paint typical advantages

1. The effect imitates the ceramic tile, transcends the ceramic tile, and changes the defect of the tile cutting Angle and stitching.
2. Light weight, the application of external insulation layer will not fall off hidden trouble.
3. Thick waterproof coating film, there is no major defect of water seepage and leakage of stolen brick wall.
4. The color texture is soft and the texture effect is diversified.

The product name	The typical characteristics of	Resistance to water and Prevent efflorescence	Uv resistance Resistance to deformation of yellow	The durability of (year)
Koala imitation brick paint	Alternative wall brick, safety, anti-seepage, affinity, low cost	optimal	optimal	15

KL3001树熊仿砖涂料
Kl3001 koala imitation brick paint

For hundreds of years, granite, traditional ceramic tile and other stone products have been widely used in the decoration of key parts of key buildings. In recent years, imitation brick coating, as an ideal alternative material for traditional ceramic tiles, has become one of the preferred decorative materials for high-end properties, and is more popular. Imitation brick coating has natural massiness and warmth, making the appearance of buildings more personalized and zhuangzhuang forward.

1. Light weight, the application of external insulation layer will not fall off hidden trouble.
2. Coating rough expansion, close to the texture of real stone, fully show the rich texture of natural stone.
3. It is not affected by the shape of the base surface, and can be painted arbitrarily with the shape of the building.
4. Using acrylic silicon hot melt technology, high chemical stability, more resistant to yellowing, water will not turn white.
5. The use of granite gravel rather than marble gravel as the exhibition color system, color lasting dignified.
6. Used with silicone varnish to ensure surface dust is not easy to adhere to.
7. The minimal oxygen permeability coefficient makes the film uv resistant, durable performance is excellent, to ensure that the building from carbonization.
8. The dead weight is much less than the stone, which is very suitable for the external insulation base surface of the external wall.

The typical characteristics of

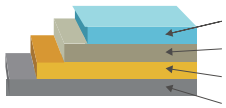
Only simple construction, can produce a variety of wall brick effect, safety, color affinity, building more classic.

The performance characteristics of

1. More safety: compared with the traditional exterior wall brick, its coating is thin, light weight, only 1/10 of ordinary brick, not only firmly combined with the base, but also completely put an end to the wall brick like falling off hidden trouble.
2. Decorative effect is comparable to exterior wall brick: color can imitate face brick, three-dimensional sense is strong, used for exterior wall can create a face brick incomparable artistic realm.
3. Lower overall cost: with excellent paint characteristics and imaginative artistic sense, to create a new concept of exterior wall paint, the price is lower than the price of face brick, it can be described as inexpensive and fine.
4. Excellent weather resistance: no matter in ordinary environment or acid rain erosion of the harsh environment, the coating has a strong adaptability and resistance.
5. Air permeability, water resistance: with color preservation, mildew resistance, air permeability, water resistance and many other advantages, has a strong resistance to dust and air pollutants.

Recommended construction technology

Effect of surface



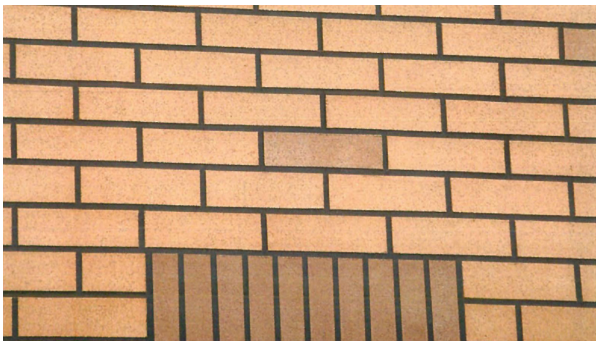
Finish: koala imitation brick finish
Finish: Koala imitation brick paint (reference dosage: 1.5-2.5kg /m2)
Primer: koala colored primer
Putty: A koala's one-part leveling putty

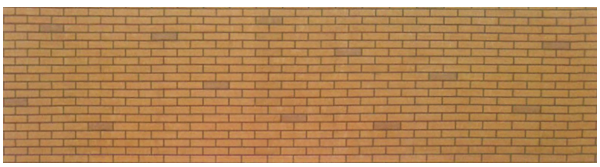
Is mainly used

Large high-grade residential buildings or villas, to create a realistic exterior brick effect.

Product characteristics

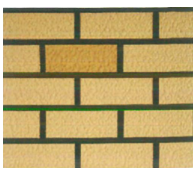
Water soluble, matte, monochrome/polychromatic, thick, one component.

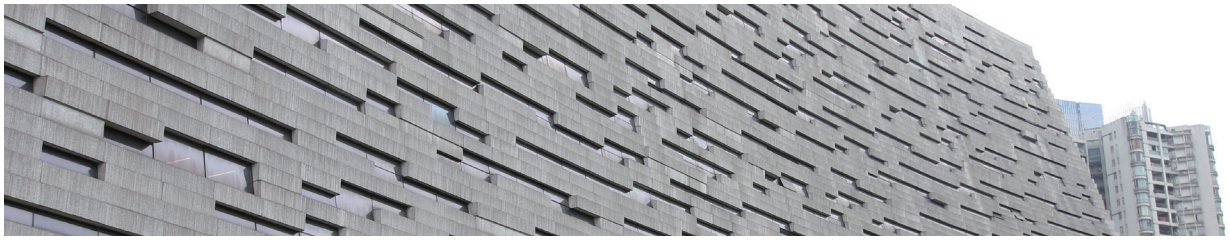














树熊精装修工程内墙涂料系列

KOALA FINE F1TMENT ENG1NEER1NG COATING
SERIES FOR INTERIOR WALL

KL1OO1工程专用哑光墙面漆

Kl1OO1 engineering matte finish wall paint

Koala engineering matte wall paint is a kind of engineering interior wall matte latex paint. Its development and design mainly consider the large area construction of easy to paint and economy, is a value of the interior wall latex paint products.

The typical characteristics of

Fine and balanced paint film, strong hiding power.

The performance characteristics of

1. Using modified acrylic emulsion as base material.
2. Easy to brush, quick to dry, strong covering power.
3. Good construction.
4. Low odor, no heavy metal, in line with environmental requirements.

Product characteristics

Water soluble, matte, white.

Is mainly used

The public part in the middle grade building or the interior wall of the middle grade residence, especially suitable for the use of the interior wall parts of large engineering real estate.





KL1002高级净味防霉墙面漆

Kl1002 High quality deodorant anti-mildew wall paint

This product uses special acrylic emulsion as the base material, adding imported mildew antibacterial agent, rutile titanium dioxide as the pigment and water as the dispersion medium of environmental protection interior wall decoration wall coating.

The typical characteristics of

1. Strong hiding power, clean taste and environmental protection.
2. It has strong adhesion and antibacterial and mildew proof function.

The performance characteristics of

1. Special modified acrylic emulsion as the main film - forming material.
2. Environmental protection anti-mildew antibacterial agent is specially added to make the paint film mildew resistant.
3. High covering rate, save material.

Product characteristics

Water soluble, matte, white (or light color).

Is mainly used

1. Various other interior walls, walls and ceilings where mildew proof is required.





KL100 3 工程雅丽丝墙面漆

Kl100 3 Engineering Yalis wall paint

Koala engineering Yalis wall paint is a fine decoration type, and proven quality super easy to clean interior wall mercerizing wall paint. Its development and design mainly consider the scrubbing resistance, large area construction of easy to paint and economy, is a kind of value for money interior wall decoration products.

The typical characteristics of

Full coating, soft luster, high resistance to scrub.

The performance characteristics of

1. High scrub resistance, super easy to clean, high quality and economical.
2. The film is soft and elegant, emitting elegant temperament.
3. Easy to paint, handy.
4. Good leveling, no brush marks.
5. High covering rate, brushing save material.
6. No bad smell and heavy metal, in line with environmental requirements.

Product characteristics

Water soluble, mercerized, white (or light color).

Is mainly used

The public parts in middle and high grade public buildings or the interior walls of middle and high grade residences are decorated with walls and ceilings.

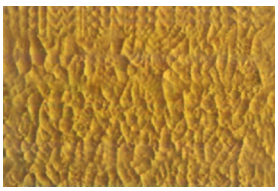




树熊厚浆型中层涂料

KOALA HIGHBUILD TEXTURE MIDDLE LAYER COATING

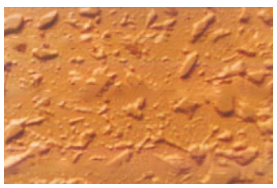
There are many forms and shapes of thick slurry texture middle-level artistic modeling coatings on the market. According to the use habits of exterior wall buildings, koala paint simplifies it into several conventional thick slurry texture middle-level coatings. As long as different construction tools and construction techniques are used in construction, You can create orange peel texture, fuzz effect, embossed embossing, embossed spray point and all kinds of texture shapes.



Hair striate effect



Embossing relief spray effect



Embossed spray point effect



Sand scraping artistic texture effect



Koala texture coating main characteristics comparison:

The product name	The typical characteristics of	The coating properties	Texture build	The page number
KL1401 Sand wall texture middle layer coating	Create a variety of coarse sand texture, texture three-dimensional sense	The thick slurry	Various sandy textures	33
KL1402 relief coating for middle layer	Soft medium material that can be sprayed with relief texture	The thick slurry	Embossed dot shape, embossed shape	34
KL1403 Wool middle layer coating	Can be constructed into orange peel grain and pull pattern effect	The thick slurry	Orange peel grain, flower texture	35
KL1404 elastic thick coating for middle layer	Can not only create a variety of textures, but also more than 200% elongation	The elastic	Orange peel grain, flower texture	36



KL1401砂壁质感中层涂料

KL1401 Sand wall texture middle layer coating

Koala sand wall texture middle layer coating, is a kind of sand texture variable artistic texture middle material, can allow users to paint a coarse and unique sand. As long as the user uses different construction tools and construction skills can create a variety of arbitrary capricious artistic texture. This product sand is unique, the construction shows arbitrarily, without modification of the original ecological texture effect.

The typical characteristics of

Create a variety of coarse sand texture.

The performance characteristics of

1. High solid content, dry shrinkage, full shape.
2. Coating film high strength, durability, water does not reduce.
3. The texture of the surface of the rough expansion of sand, eclectic.
4. Excellent construction, suitable for a variety of construction methods.

Is mainly used

1. Supporting a variety of internal and external wall paint, to create a coarse sandy texture effect.
2. Indoor use, can not be coated with other topcoat, direct prostitution medium material texture, also interesting.

Product characteristics

Water soluble, matte, white, thick.

Important note

1. Please apply finish paint when using outdoors, otherwise it is easy to aging.
2. Because it is a thick coating, the actual drying time of the coating is longer, more than 2 days in summer and autumn; More than 3 days in spring and winter can be coated with waterborne topcoat. If you want to paint oil and other dense finish on the middle material, you must ensure that the middle material is completely dry (moisture content ⩽10%). Therefore, it is recommended to dry for 4 days in summer and autumn, and 6 days in spring and winter. Otherwise, the evaporation of water content in the middle material may produce outward thrust, causing the phenomenon of surface paint drum.

Typical texture with adoption tools

1. As long as the user uses the ordinary scraper, through the vertical and horizontal force scraping, can be randomly scraping the schematic effect of the above figure 1.
2. The user can use the self-made knife to scratch out the effect of the upper circle two.
3. Users can also use different tools and construction techniques to render a variety of textures at will.



Sand scraping artistic texture effect



Wavy artistic texture effect



KL1402浮雕中层涂料
Kl1402 relief coating for middle layer

Koala relief middle coating is through a special spray gun, spraying a variety of specifications of relief dot texture - a kind of middle material. The product can be built according to the construction needs, can be fine, can be thick, can be flat, can be round all kinds of relief dot or relief embossing texture.

The typical characteristics of

Soft medium material sprayed with relief texture.

The performance characteristics of

1. High solid content, dry shrinkage, full shape.
2. Coating film high strength, durability, water does not reduce.
3. Relief point concave and convex different, eclectic.
4. Excellent construction, suitable for a variety of construction methods.

Is mainly used

Supporting a variety of internal and external wall paint, create a variety of forms of relief dot shape or relief embossing effect.

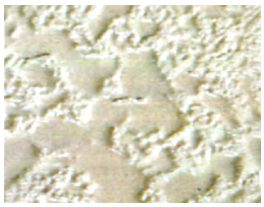
Important note

Due to the thick coating, the actual drying time of the coating is longer. More than 2 days in summer and autumn; More than 3 days in spring and winter can be coated with waterborne topcoat. If you want to brush on the middle material such as dense finish, must ensure that the middle material is completely dry (moisture content ⩽10%). Therefore, it is recommended to dry for 4 days in summer and autumn. It is advisable to dry for 6 days in spring and winter. Otherwise, the evaporation of water content in the middle material may produce outward thrust and cause the phenomenon of surface paint drum.

Typical texture with adoption tools

1. Need skilled workers, the use of relief spray gun, spraying a variety of different point relief effect.
2. If you need to press flat relief point, such as spraying drying 15-30 minutes, with embossing drum jiao water pressure flat relief point, can make the coating more regular, smooth.


Embossing effect


Embossed dot pattern effect



KL1403拉毛中层涂料

Kl1403 Wool middle layer coating

Koala pull hair middle layer coating is a kind of three-dimensional texture medium material suitable for large area use. As long as the elastic roller can be used to roll coated with uniform texture, grain surface smooth texture similar to orange peel. The construction of high grip, particles and ripples smooth round, not easy to accumulate ash. With other medium materials and other artistic texture coating incomparable advantages and has been widely adopted by users.

The typical characteristics of

Strong texture, easy construction.

The performance characteristics of

1. High solid content, dry shrinkage, full shape.
2. Coating film high strength, durability, water does not reduce.
3. Texture surface smooth round, not easy to accumulate ash.
4. Excellent construction, suitable for a variety of construction methods.

Is mainly used

Supporting a variety of interior and exterior wall paints to create artistic texture like orange peel and other different textures. The coating has a three-dimensional decorative effect.

Product characteristics

Water soluble, white, thick.

Important note

Because it is a thick coating, the actual drying time of the coating is longer, more than 2 days in summer and autumn; More than 3 days in spring and winter can be coated with waterborne topcoat. If you want to brush oil and other dense finish paint on the middle material, you must ensure that the middle material is completely dry (moisture content ⩽10%), therefore, it is recommended to dry for 4 days in summer and autumn; It is advisable to dry for 6 days in spring and winter, otherwise, the evaporation of water content in the middle material may produce outward thrust, causing the phenomenon of surface paint bulge.

Typical texture with adoption tools

1. The user chooses the elastic roller of different thickness and fine lines, and the orange peel effect of corresponding thickness can be evenly rolled and coated.
2. Users can also use different tools and construction techniques to create a variety of textures.





KL1404 弹性厚浆中层涂料

Kl1404 elastic thick coating for middle layer

Koala elastic thick slurry middle layer coating is a middle layer coating with 200% elastic elongation. It not only has excellent stacking performance, but also can cover fine cracks in the wall. The coating of the product can not only accumulate modeling, but also can be combined with a variety of surface coating layers into thick film type elastic coating film. It can deduce a variety of textures according to different construction tools and construction techniques. Such as: with elastic roller coated orange peel grain texture; It is a kind of functional and decorative expert coating in a body.

The typical characteristics of

Can not only create a variety of textures, but also with more than 200% elongation.

The performance characteristics of

1. The elastic elongation of the film is more than 200%, and the ability to cover cracks is good.
2. High solid content, low dry shrinkage, full and smooth film.
3. Good water resistance, no foaming when damp for a long time.
4. Easy construction, good loading.

Is mainly used

Matching with the specified topcoat, combined into an elastic coating, creating a multi-level artistic texture, to cover cracks and texture decoration effect.

Product characteristics

Water soluble, thick.

Important note

Koala elastic thick pulp middle coating should not be used with hard surface coating, otherwise it is easy to cause cracking of hard surface paint. For details, please consult the koala customer service center and local distributors.





树熊功能型底漆

KOALA FUNCTIONAL TYPE PREMIER

Coatings are usually made up of base, primer, middle material and finish. Among them: base level material is the coating of bones and muscles, primer is the base protective layer, middle paint is a modeling layer or thickening layer, finish paint is the epidermis. The base is good or bad, will decide whether the renovation repair needs to move the ribs and bones, the selection of intermediate paint determines the shape and fullness of the film, the finish determines the color and overall texture of the paint, and the primer is the key key of the indispensable paint, it directly affects the surface paint whether there is a lot of problems such as alkali and bite color.

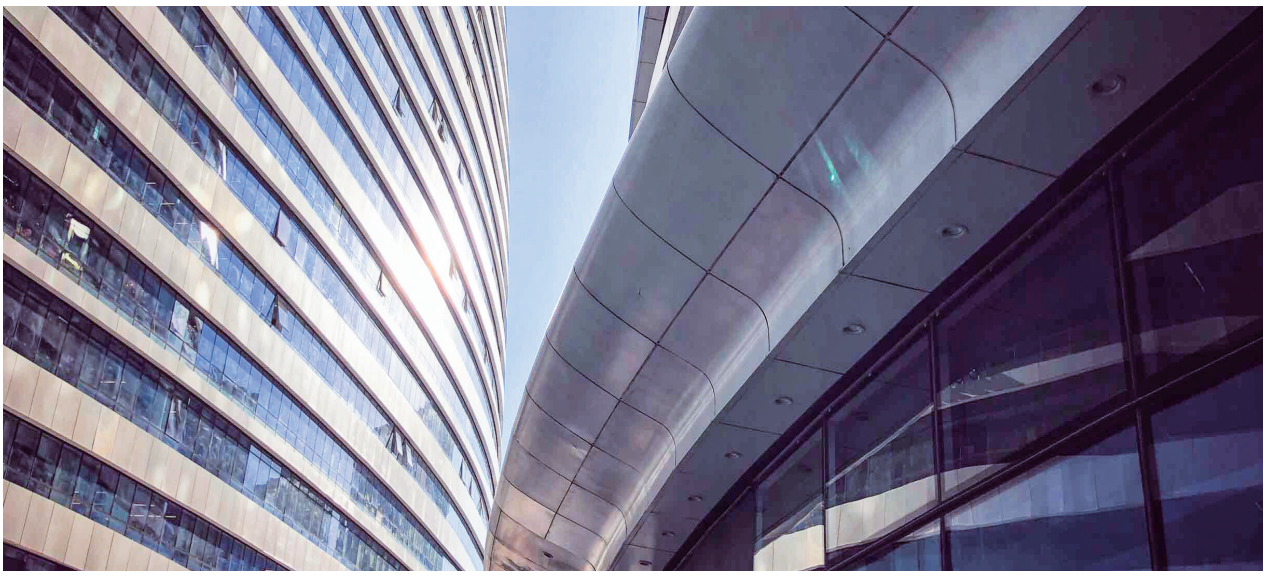
Koala coating has developed various products with different functions to meet various needs and cope with various complex base cleaning conditions in practice, so as to ensure the good durability of various surface coating materials.

In fact, the paint base wall is very complex and diverse. In the renovation of the old project, the powder of the old coating will cause the separation layer phenomenon, but the surface of the flour layer can not be cleaned; For example, the continuous high moisture erosion of the backwater partition and the high humidity area partition; As well as the very smooth base surface besmear such as old ceramic tile is brushed and so on, all of these cannot be solved with conventional primer one by one.

Koala functional primer main characteristics comparison:

The product name	The typical characteristics of	Suitable for place and supporting	The page number
KL1301 Waterborne clean primer for interior wall	Waterborne interior wall primer with high hiding ability	Suitable for interior wall, matching interior wall latex paint	38
KL1302 Water-based alkali resistant primer for exterior walls	An excellent water-based primer with good alkali resistance and relative economy	Suitable for exterior wall, supporting all kinds of exterior wall coating system	38
KL1303 Water-based black primer	Alkali - resistant primer and uv - resistant primer	Black, highlight texture effect, matching texture finish	39
KL1304 Colored primer	Alkali - resistant primer and uv - resistant primer	Suitable for all kinds of cement base wall surface, matching texture finish	39
KL1306 Tracing thread paint	Professional sewing color separation line paint	Suitable for all kinds of cement base wall surface, supporting true stone paint, imitation brick paint, metal fluorocarbon paint and other coatings exposed parting line	40
KL1305 Water-based penetrant reinforcing primer	Super solid bottom function, super adhesion	Suitable for old wall renovation and powder, loose base, supporting a variety of topcoat reinforcement base	41
KL1307 water-based epoxy primer	Expert primer with excellent water resistance and high adhesion.	All kinds of high alkali, high salt wall can be applied.	42

Excellent performance, compatible with waterborne coatings.



KL1301水性内墙净味底漆
Kl1301 Waterborne clean primer for interior wall

Koala waterborne interior Wall primer is a waterborne interior wall primer, which is specially developed for interior wall environment.

The typical characteristics of

For use with interior wall paint.

Features that

1. Good closure.
2. Good adhesion.
3. Alkali resistance.

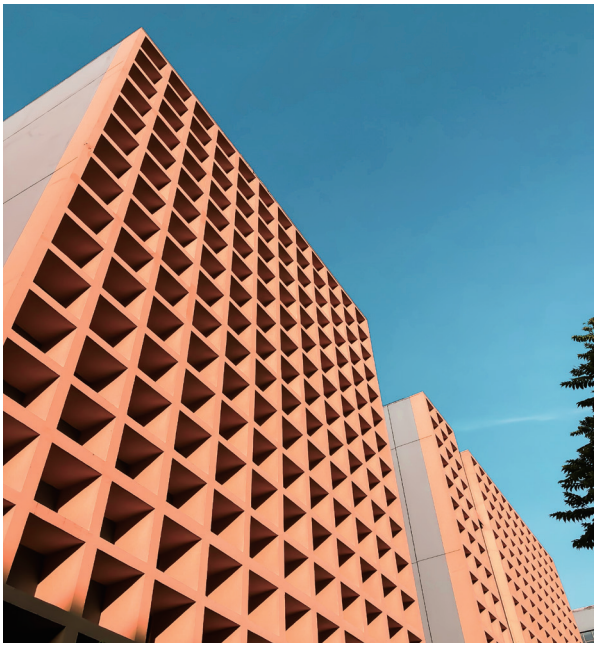
Product characteristics

Water soluble, one component.

Is mainly used

All kinds of water-based interior wall coatings for anti-alkali backcover.





KL1302水性外墙抗碱底漆
Kl1302 Water-based alkali resistant primer for exterior walls

Because the alkali-resistant ability of conventional primer is very limited, the change of wall conditions and the negligence of construction may cause the closing failure of primer, resulting in the fading and falling off of the finish.

Koala waterborne exterior wall primer strengthens the function of alkali resistance and salinization resistance that traditional primer lacks. It is an economical upgrading product of conventional exterior wall primer.

The typical characteristics of

Excellent performance, compatible with waterborne coatings.

Features that

1. Strong covering power, high coating rate.
2. High resistance to alkali and flooding salinization.
3. Excellent sealing, can prevent the wall soluble material precipitation.
4. Strong adhesion, good loading.
5. The randomness of construction base.

Product characteristics

Water soluble, one component.

Is mainly used

Used together with general water-based exterior wall coating, it has the function of alkali - resistant backsealing.

KL1303 水性黑色底漆
KL1303 Water-based black primer

Selection of high quality synthetic emulsion, the product is a special coating for the exterior wall, more reflect the texture effect, as a basis for good product effect, but also play a good role in sealing the base.

The typical characteristics of

With black effect, from the beginning of the basic coating can form the initial effect of the product, to meet the needs of customers for color.

Features that

1. Anti-alkali, anti-ultraviolet function.
2. Strong adhesion, good load type.
3. Prevent water-soluble substances from spreading out the coating on the wall.
4. Prevent the coating from peeling off when exposed to moisture.

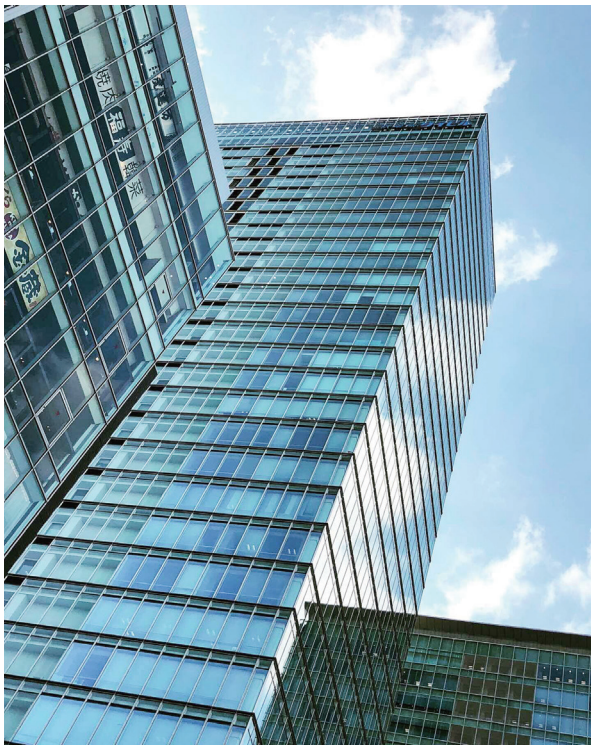
Product characteristics

Waterborne, black, one component.

Is mainly used

The construction process of exposing the dividing line as a primer.





KL1304有色专用底漆
Kl1304 Colored primer

Koala color primer can adjust color, alkali resistance, color preservation and uv resistance.

The typical characteristics of

Alkali - resistant primer, color - preserving primer and uv - resistant primer.

Features that

1. Anti-alkali, anti-ultraviolet function.
2. Anti-uv aging function, keep color lasting.
3. Strong adhesion, good loading.

Product characteristics

Water soluble, color, one component.

Is mainly used

Can be used as a primer for the color required

KL1305 描缝线条漆

In coating construction, paint for tracing line is often ignored or desalted by the industry. In fact, in coating project, the tracing seam place that often can discover coating can appear in a few short months time become warping skin, fall off, fade, ooze water and the phenomenon such as salting out, affect the integral beauty of wall body thereby.

It has been proved by the research that the trace seam of the groove is the concentrated discharge place of the wall alkaline substance, and also the key part of the wall water caused by the crack of the paint layer. For plane technology, tracing seam is often the simplest part of the brushing process, but also the weak link of the coating. In view of the particularity of tracing, Koala Paint company launched a professional solution to this problem of expert tracing thread paint. This product not only has the penetration function, strengthens the adhesion ability, but also has the dense alkali, the dense salt to suppress the alkali material precipitate the coating, as well as the resistance ultraviolet ray and is not easy to fade, is a kind of professional expert product.

The typical characteristics of

Professional line paint for seam separation.

Features that

1. Extremely micro particles, high permeability design, can be strongly attached to the base.
2. Dense bridging film can block penetration of alkaline substances.
3. Uv resistant and not easy to fade.
4. It has the basic function of alkali and salt resistance.

Product characteristics

Water type, color, single component.

Is mainly used

Paint besmear brush-before or besmear brush-after, the special paint of tracing seam that gives different color dividing line.





KL1306水性渗透加固底漆

Kl1306 Water-based penetrant reinforcing primer

The tree bear coating company that serves as the expert of functional building coating, think metope is common in addition to metope dry not sufficient outside, still have the phenomenon that basic level loose and basic level powder changes, as well as the basic level loose phenomenon that chooses low quality base level off material to cause. To this end, koala coating company RESEARCH and development center using nanotechnology launched a koala reinforced penetration primer with high permeability, it has a strong base or coating penetration, can penetrate into the depths of the base, attached to the base deep solid body, play an excellent role of solid bottom.



The typical characteristics of

Expert primer with super strong solid function.

Features that

1. Nano-level solid particles, coupled with dynamic permeating solvent, can quickly penetrate into the powder base, play a role of strengthening the base.
2. High resistance to alkali and flooding salinization.
3. Excellent wall sealing and loading.

Product characteristics

Water type, light, transparent, single component.

Is mainly used

1. Strengthen the old powder base and fragile putty layer, play a reinforcing and sealing double function.
2. With a variety of anti - auxiliary back cover, which is based on a variety of anti - auxiliary back cover, which is based on a variety of anti - auxiliary back cover, which is based on a variety of anti - auxiliary back cover.



KL1307水性环氧底漆

Kl1307 water-based epoxy primer

Ingredient for the product made from epoxy resin, mainly for metope inadequate drying conditions, the moisture of the heavier base is used, with functions of hydrophobic, waterproof and water function, low temperature at the time of the membranous, basal to permeability and the cementation is superior to all kinds of waterborne primer, effectively solve the caused by alkaline precipitation coating white metope, the phenomenon of hair flower.



The typical characteristics of

Expert primer with excellent water resistance and high adhesion.

Features that

1. The film has a unique water-repellent function, and plays an excellent waterproof and water-tight role.
2. Alkali resistance, salt resistance, all kinds of high alkali, high salt wall can be applied.

Product characteristics

Semi - light, transparent, single component.

Is mainly used

1. All kinds of incomplete drying and drying walls. On the back cover.
2. Waterproof engineering back water partition wall, as well as the base of high alkaline wall waterproof and alkali resistance.
3. Use salt resistant primer for sea sand plastered walls in coastal areas.



树熊基层外墙腻子

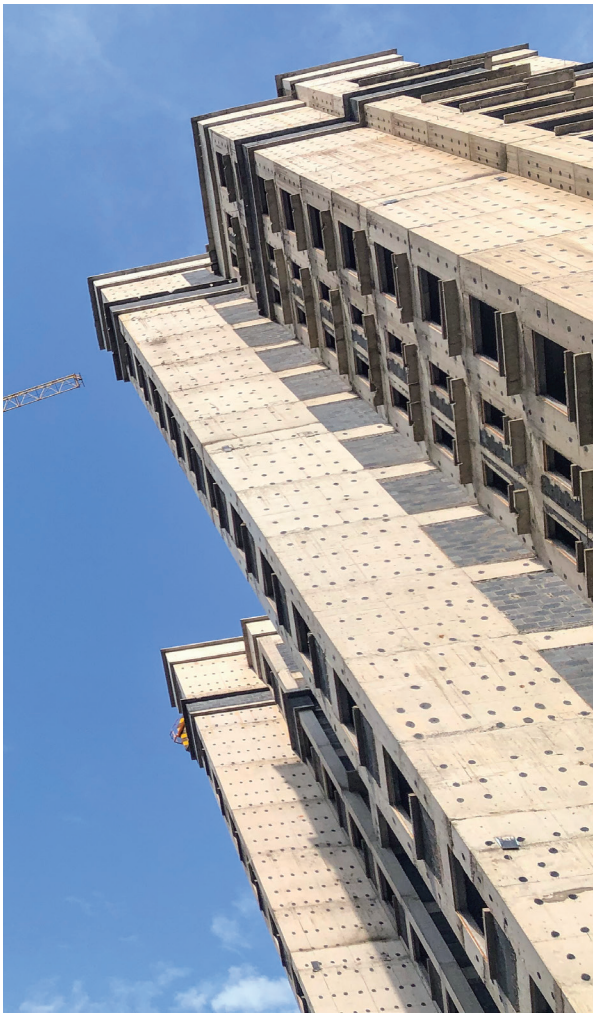
KOALA BASE PUTTY FOR EXTERIOR WALL

8 minutes basic level 2 minutes face, basic level processing decided the integral adornment effect of coating.

Basic level is bone and muscle, surface layer is epidermis, paint renovates ceaselessly, should not move muscle to move bone.

The influence of the base layer on the overall decorative effect of the coating and the overall durability of the coating, only a good base layer is possible to show a good surface effect. At the same time, if you can give the base a permanent base, you can let the paint periodic renovation work, become exceptionally easy and low-cost.

Whether plastered, old stolen brick or Mosaic; Uneven base, structural cracks or indoor walls with higher requirements for environmental protection; Permeable water wall, cracking tendency of the wall or the surface of the surface smoothness requirements of the very high base, koala paint many base level materials, there will be a suitable for you.



KL1201单组份水性抛光腻子

KL1201 one component water polishing putty

Fluorocarbons paint and metal paint are very high to the basic requirements, especially when using plane spraying technology, not only the basic level off but also smooth without micropores. Koala paint RESEARCH and development center for fluorocarbon paint and metal paint and other high-grade paint design supporting the use of basic polishing putty, it can close the rough surface of the base, so that the coating layer more smooth.

The typical characteristics of

Designed for the promotion of plane decoration effect of expert matching products.

1. Smooth effect, deep smooth base surface.
2. Excellent construction, fast drying speed, good grinding.
3. Good film strength, excellent matching with nitrogen carbon paint and metal paint primer and topcoat.

Product characteristics

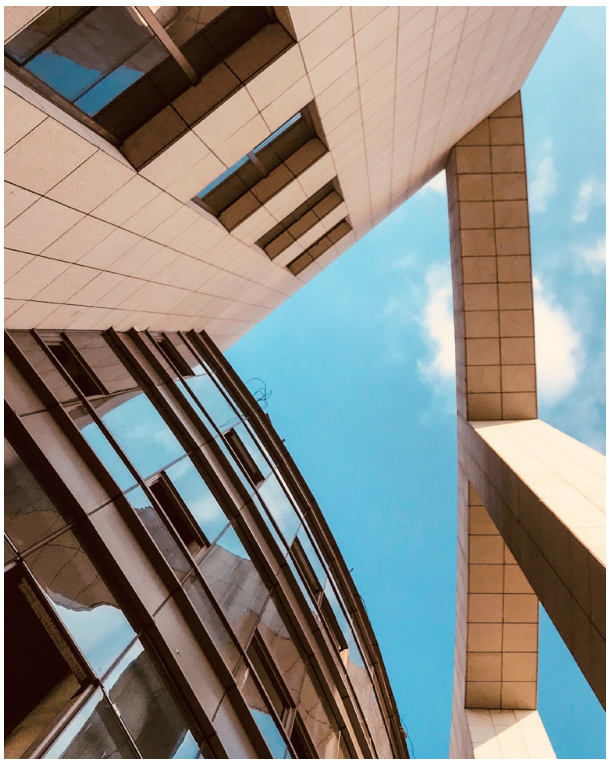
White, single component.

Is mainly used

On the basis of scraping flat with koala two-component elastic anti-crack exterior wall putty, this product can make the base highly smooth, which is a supporting product for the plane spraying process of fluorocarbon-carbon paint and gold rot paint and other high-grade coatings.

Special note

1. When scraping the product, the floating ash at the base must be cleaned with water or other methods to avoid affecting adhesion.
2. This product is only used for thin base smooth surface, only for leveling base micro hole, can not be used for base stacking filling or other thick scraping. Otherwise, it may cause quality problems such as cracking, which may lead to finish paint peeling off in serious cases.



KL1202单组份外墙找平腻子
Kl1202 single component wall leveling putty

Koala single wall leveling putty is a kind of surface leveling material which can give consideration to economy, construction, filling, waterproof and durability.

The typical characteristics of

Easy construction, high cost performance

Features that

1. Add water to stir and use.
2. Easy to scratch, excellent construction.
3. Easy to scratch, excellent construction.
4. Good waterproof performance, water will not be reduced, good durability.
5. Excellent double affinity with base and coating.

Product characteristics

Powder, single component, 25kg/ bag

Is mainly used

All kinds of cement mortar, concrete and other base surface coating construction before the leveling layer.

KL1203单组份外墙防潮腻子
Kl1203 One component moisture proof putty for exterior wall

Treebear single group moisture-proof putty for exterior wall is specially developed for the application of exterior wall base. It provides a good leveling moisture-proof layer for the coating system, and provides a smooth base surface with good affinity and strong adhesion to the coating.

The typical characteristics of

Good moisture resistance, easy to scrape.

Features that

1. Add water to stir and use.
2. Waterproof and moisture-proof functions are specially added to prevent rainwater from penetrating into the wall
3. Waterproof performance is good, to avoid the cement mortar at the base due to water absorption, pu water and swelling, peeling off.

Product characteristics

Powder, single component, 25kg/ bag.

Is mainly used

All kinds of cement mortar, concrete and other base surface coating construction before the leveling layer.



KL1204双组份弹性抗裂外墙腻子

Kl1204 two component elastic anti-crack exterior wall putty

Koala elastic anti-crack exterior wall putty is mainly composed of a variety of inorganic minerals and special waterproof binder. It is a two-component exterior wall putty with high adhesion. It is a surface leveling material that can take into account economy, construction, filling, waterproof, durability and environmental protection.

The typical characteristics of

With good high adhesion, with - fixed, good partition wall base fine crack expansion.

Features that

1. Two - component configuration, excellent bonding and adhesion strength.
2. Arbitrary scraping, good construction
3. The drying process has little shrinkage and good cutting property.
4. The drying process has little shrinkage and good cutting property.
5. Coarse sand and fine sand two kinds.
6. It does not contain construction glue and soft, lead and other heavy gold shoes, which is environmentally friendly.

Product characteristics

Water soluble, two component, main agent gray powder, curing agent milky white liquid.

Is mainly used

All kinds of indoor and external walls of cement mortar plasterer base and tri-compound plasterer base surface leveling batch scraping.

Special note

1. When using, it should be prepared strictly according to the ratio shown on the packaging, otherwise it will affect the design strength and adhesion.
2. This product needs enough water to ensure the effect of crosslinking reaction. Therefore, in the summer and autumn of south China and the dry areas of north China, must be in the second day after the scraping with water or roll with water to fill the layer, that is, water conservation, in order to ensure the complete curing reaction, to achieve the best bond strength.



树熊罩面涂料
KOALA OVERLAY COATING

The main function of finish coating is glazing and protective finish. Koala series finish coating, no matter from the cost of economy, or layer to layer compatibility, is perfect, to ensure that the coating should play its due luster.

As a member of the koala functional architectural paint family, finish paint and functional finish paint play a separate role, so they have the same importance.



KL1588 水性抗污罩面漆
Kl1588 Water-based stain resistant finish

Koala water - based stain - resistant finish is a modified special water - repellent stain - resistant finish. Its coating is stain resistant, high adhesion, waterproof, yellowing and high weather resistance.

The typical characteristics of

Excellent stain resistant, weather resistant, waterproof white finish coating.

Product characteristics

Water soluble, light, transparent, one component.

Is mainly used

Natural color sand lacquer, granite rock slice lacquer, texture coating cover, can also be used for other water-soluble coating cover, play a protective surface coating function.





KL1688水性金属漆罩面漆
Kl1688 Waterborne metal paint finish

Koala waterborne metal finish coating is a special finish coating matching with metal paint, which has the effect of glazing and protection of finish paint. The finish is clear, transparent and non-yellowing, providing the same excellent durability.

The typical characteristics of

Uniform luster, rich film, with good weather resistance

Product characteristics

Water type, light, transparent, single component.

Is mainly used

Special finish used with metal paint.

创造和谐 创造美

CREATE HARMONY & BEAUTY

All buildings are alive. Architecture is flowing music.

High quality exterior wall coating and excellent construction can realize the perfect integration of architectural aesthetics and human nature.

Therefore, we are not only the manufacturer of coatings, but also the supplier of complete solutions to create harmonious and outstanding architectural works for our customers.











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