



Bonndeco WeatherGuard

Modified Acrylic Resin

Product Description

Bonndeco WeatherGuard advanced interior and exterior wall paint has the excellent characteristics of both inorganic silicate and organic acrylic paints. Its paint film water resistance, scrub resistance, alkali resistance, temperature change resistance, weather resistance and stain resistance all meet or exceed the HKHA standard of Multi-layer acrylic paint.

Features & Benefits

- ✓ Inorganic organic composite coating with excellent water-repellent and breathable and weather-resistant properties.
- ✓ Good bonding with the substrate, with a certain tension, not easy to flake and chalking.
- ✓ Excellent coverage rate, filling power and color retention performance.
- ✓ Excellent anti-mold, anti-algae and anti-dirt properties, making the paint film lasting bright.

Typical Painting System

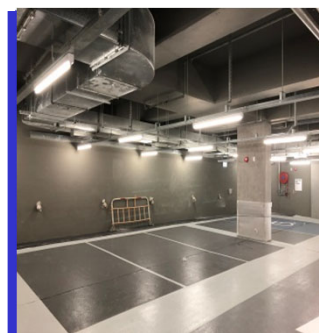
Preparation	System	
Surface should be smooth, clean and dust free.	Sealer	Bonndeco Ultra Sealer (1 coat)
	Compound	Bonntile Pen Compound (1 coat) (Optional)
	Topcoat	Bonndeco WeatherGuard (2 coats)

Technical Data

Application Surfaces	It is suitable for the application to exterior/ interior surfaces of the following substrates: - Precast Concrete Poured in Place Concrete, Plaster (mortar), Stucco GRC, Tile Filler, Existing paint film
Application Locations	It is suitable for the application to exterior/ interior surface of the following locations: - Walls and columns, Ceilings and beams, Fence walls, Roof parapets, Bends, etc.
Application	Roller, Spray, Brush
Glossiness	Matt, Semi-gloss, Gloss
Color	Standard color Chart from Bonndeco or tailor made color
Package available	20kg/can
Thinning ratio	5 – 10%
Drying time	At least two (2) to eight (8) hours, depending on the weather condition at the time of application.
Theoretical spreading ratio	Approximately 60 - 80 m ² / 2 coats / can



Hong Kong Children's Hospital
兒童醫院



M + Museum, West Kowloon
(ICP and ISP) 博物館



Seanorama, Ma On Shan
星漣海, 馬鞍山



Wong To Yick, Yuen Long
黃道益, 元朗



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Items	Method	Acceptance Standards With Texture Coat	Result
VOC content	USEPA Method 24		33g/L
Low Temperature Stability	Clause 5.5 JIS A6910-1988	No lumps and free from separation and aggregation of the composing materials	Comply
Change in Consistency	Clause 5.6 JIS A6910-1988	±15%	Comply
Cracking Resistance due to initial Stage Drying	Clause 5.7 JIS A6910-1988	No cracking shall occur.	Comply
Adhesion Strength	Clause 5.8 JIS A6910-1988	Standard condition $\geq 68.6 \text{ N/cm}^2$ Immersion in water $\geq 49.0 \text{ N/cm}^2$	Comply
Repeated Warming and Cooling	Clause 5.9 JIS A6910-1988	No peeling, cracking and blistering and remarkable discoloration and degradation in luster on the surface.	Comply
Permeability	Clause 5.10 JIS A6910-1988	$\leq 0.5 \text{ ml}$	Comply
Impact Resistance	Clause 5.11 JIS A6910-1988	Cracking remarkable deformation and peeling shall not occur.	Comply
Weather Resistance	ASTM G154-12a	Cracking and peeling shall not occur and the discoloration shall be NO.3 or over in grey scale according to JIS A6910-1988	Comply
Determination of Resistance to humid atmospheres containing sulphur dioxide	BS EN ISO 3231:1998	No blistering, loss of adhesion, rust staining, change of colour, embrittlement and other signs of deterioration.	Comply
Resistance to Fungal Growth	FIN7.APPE ND1	Resistance Index ≤ 1 at Day 28 for fungal resistance	Comply
Resistance to Algal Growth	FIN7.APPE ND1	Resistance Index = 0 at Day 28 for algal resistance	Comply
Lead content	% by wt.		< 0.001
Cadmium content	% by wt.		< 0.001
Barium content	% by wt.		0.005
Mercury content	% by wt.		< 0.001
Chromium VI content	% by wt.		< 0.001
Phthalates content Benzyl butyl phthalate (BBP) Dibutyl phthalate (DBP) Di-(2-ethylhexyl) phthalate (DEHP) Diisononyl phthalate (DINP) Diisodecyl phthalate (DIDP) Di-n-octyl phthalate (DNOP)	% by wt.		< 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1

Remarks:-

- The recommended coverage rates, including those of normal wastage, are for reference only. Actual coverage may vary depending on the working condition of the site, the degree of evenness and smoothness of the substrate surface, and the pattern of the texture sample as selected and approved by the architect or client.
- We reserve the right to change or adjust the composition of material used in the specification of our products due to our constant research and development to improve the quality of our products.

Bonntile Hong Kong Ltd : Flat C2., Hang Fung Industrial Building Phase 2, 2G Hok Yuen Street, Hung Hom, Kowloon

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Surface Treatment & Condition Requirement

New Surface

- Substrates must be properly cured before applications.
- Application surface must be smooth and free of voids or sharp projections.
- Any application surface such as precast concrete, with excess pinholes, honeycomb, cracks, uneven or porous condition, should be filled up prior to the application.
- Any application surface, with laitance, efflorescence, dust, rust, oil grease, curing agent etc. must be removed completely by brushing, sanding or other effective means.
- Recheck surface after repair to assure satisfactory condition prior to Bonndeco application.

Old Surface

- All loose coating on the application surface should be removed by wire brushing, Sanding or other effective means.
- Any laitance, efflorescence, dust, rust or oil grease must be removed completely by brushing, sanding or other effective means.
- All defective areas, hollow plasters and spoiling concrete must be hacked off.
- Defective wall surfaces must be repaired by filling cracks or re-plastering of hacked off portions.
- To paint areas must be cleansed by high pressure water jet at 1,500 psi and all surfaces should be of the sound, clean, dry and sufficiently smooth that accepted as an appropriate substrate for the application of Bonndeco Products.

Fungus

Remove by high-pressure water jet wash and treated with anti-fungus solutions. Allowed to dry before painting.

Grease

Clean Off with mild detergent and a little solvent. Wash thoroughly to remove all trace.

Application Procedure

- Shake and stir thoroughly to get a complete dispersion of pigment.
- Use standard practice, either by rolling, brush or spraying, to ensure conformance to the specification requirement.
- Drying time may take at least two (2) to eight (8) hours at 10°C - 20°C
- Workers, applying in confined areas, are required to wear protection masks and exhaust ventilation should be properly supplied to the confined area.

Precautions in use

Handling and storage

- Do not use near flames
- All workplaces to always have specific ventilating equipment in operation.
- Particular precautions to be taken for good ventilation during application and while drying, and precautions taken to avoid any inhaling of fumes.
- During handling, precautions to be taken to avoid any skin contact and as necessary, gas mask against organic gas or fresh air supplying masks to be worn and also use head towels, wear protective eyeglasses, long sleeved protective gowns, neck protecting towels, protective gloves, etc.
- When coat is spilled, wipe with waste cloths to be kept stored in water filled containers.
- Until final disposal, all waste cloths that have been exposed to coat, hardeners or thinners, and leftover coat, spray dust, etc. for disposal shall be kept doused in water filled containers.
- After handling or application, hands to be thoroughly washed and extensive gargling is advised.
- The handles on the upper part of the tin containers are solely for carrying the tins. Please do not use ropes and hooks on the handles for hanging the tins.
- During storage, containers are to be tightly sealed and stored out of any direct sunlight or any exposure to rain, in a cool, well ventilated area.
- Please store away from any foreign instruction by third parties and out of the reach of children.

Cleaning Up

- Clean all equipment with clean water immediately after use.

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