

Bonndeco Fine Urethane

Modified Acrylic Polyurethane Resin



BONNTILE HONG KONG LTD

Product Description

Bonndeco Fine Urethane is an especially high performance and durable modified acrylic polyurethane paint for applying on new and renovation project for internal and external wall. The resin particles fuse together forming a markedly durable paint as the water evaporates, providing a highly dense colored film. It is tough and abrasion-resistant, providing good chemical and solvent resistance, weathering properties, gloss retention and the one-pack formulations are sensitive to moisture in the wet stage, with an outstanding resistance to humidity, acids and alkali.

Features & Benefits

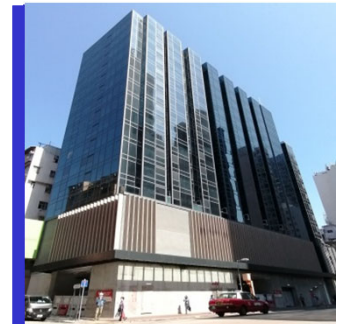
- Good Water & Alkali Resistant
- Good Weather and Scrub Resistant
- Anti-dirt, Excellent washability
- Anti-carbonation
- Good UV resistant
- Algae and Fungus resistant

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 Fine Urethane (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	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



Urban Wood Hotel, Hung Hom
城木酒店, 紅磡



Culture Hotel, Tuen Mun
屯門文化村



Aberdeen Fire Station & Ambulance Depot
香港仔消防局及救護站



Fleur Pavilia, North Point
北角柏蔚山



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Test Report on Analysis of Paint		
Testing Item		Result
USEPA Method 24		12g/L
Hardness (Pencil Scratch Test) JIS K5400-1990 cl 8.4.2		F
Drying Time @ 20°C JIS K5660-1995 cl 4.6		1
Drying Time @ 5°C JIS K5660-1995 cl 4.6		2½
Opacity, % JIS K5660-1995 cl. 4.8		95
Water Resistance (immersed in tap water for 96 hours) JIS K5660-1995 cl 4.10		The gloss retention ratio is 101% after 96 hours immersion, and no abnormalities on film surface
Alkali Resistance (immersed in saturated calcium hydroxide solution for 7 days) JIS K5660-1995 cl 4.11		The gloss retention ratio is 97% after 7 days immersion, and no abnormalities on film surface
Salt Water Resistance (immersed in 3% sodium chloride solution for 168 hours) JIS K5400-1990 cl 8.23		There is no abnormality, even immersed in sodium chloride solution for 168 hours
Wet Scrub Resistance (1000 times) JIS K5660-1995 cl.4.12		Pass 1000 cycles
Accelerated weathering test (Xenon-arc radiation for 480 hours) JIS K5660-2008 7.15 Modified		The gloss retention ratio is 68% after exposure for 480 hours
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	% by wt.	
Benzyl butyl phthalate (BBP)		<0.001
Dibutyl Phthalate (DBP)		<0.001
Di-(2-ethylhexyl) phthalate (DEHP)		<0.001
Diisononyl phthalate (DINP)		<0.001
Diisodecyl phthalate (DIDP)		<0.001
Di-n-octyl phthalate (DNOP)		<0.001

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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.

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 of the quality of our products.

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