

## **Bonntile Hong Kong Limited**

邦盛建材香港有限公司

**TECHNICAL DATA SHEET** 

## **Bonntile PU (WT#100) Topcoat**

Emulsion of acrylic urethane

#### **Product Description**

With our advanced Cross-linking technology, Polyurethane Resin Base Coating surpasses the durability and performance of convention acrylic coating. The resin particles fuse together forming a markedly durable paint as the water evaporates, providing a highly dense colored film. For outdoor area of external wall that keeps buildings in original condition for more than 7 years.

#### Features & Benefits

- · Excellent alkaline resistance
- · Good weatherability resistance
- · Good UV resistance
- · Excellent water resistance
- · Good washability
- · Excellent adhesive strength
- · Algae and Fungus resistant
- · Safe to use, odourless
- Easy to apply

Typical Painting System		
Preparation	System	
Surface should be smooth, clean and dust free.	Sealer	Bonntile New N-Sealer (1 coat)
	Topcoat	Bonntile PU (WT#100) Topcoat (2 coats)

## Surface Treatment & Condition Requirement New Surface

- a. Substrates must be properly cured before applications.
- b. Application surface must be smooth and free of voids or sharp projections.
- c. Any application surface such as precast concrete, with excess pinholes, honeycomb, cracks, uneven or porous condition, should be filled up prior to the application.
- d. 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 Bonntile application.

### **Old Surface**

- All loose coating on the application surface should be removed by wire brushing, Sanding or other effective means.
- b. Any laitance, efflorescence, dust, rust or oil grease must be removed completely by brushing, sanding or other effective means.
- c. All defective areas, hollow plasters and spoiling concrete must be hacked off.
- d. Defective wall surfaces must be repaired by filling cracks or re-plastering of hacked off portions.
- e. 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 Bonntile Products.



Flat C2, 11/F., Hang Fung Industrial Building Phase 2,

2G Hok Yuen Street, Hung Hom, Kowloon

Tel: 852-2341 9201

Fax: 852-2763 5348

## **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-glossy, Glossy

### Color

Standard color chart from Bonntile tailor made color

## Package available

16kg/can

## Thinning ratio

2 ~ 10%

## **Drying time**

At least two (2) eight (8) hours, depending on the weather condition at the time of application.

### Theoretical spreading ratio

Approximately 45-50m2/ 2 coats/ can

### Remarks:-

1. 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.

2. 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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Properties		
Condition in container JIS K5400 4.1	It was become uniform without lumps when mixing by stirring.	
Low temperature stability @ -5°C JIS K5400 5.1	No deterioration.	
Drying time @ 20°C JIS K5400 6.5	Less than 2 hours.	
Drying time @ 5°C JIS K5400 6.5	Less than 4 hours.	
Application properties (Recoatability) JIS K5400 4.1	There was no application difficulties when applied twice.	
Specular gloss (60°) JIS K5400 7.6	82.	
Appearance of film JIS K5400 7.1	There was normal in the appearance of paint film.	
Opacity JIS K5400 7.2	0.99.	
Water resistance JIS K5400 8.19	After immersion in water for 96 hours, the gloss retention was 99% and there was no change in the paint film.	
Alkali resistance JIS K5400 8.21	After immersion in alkali (5 w/v% sodium hydroxide solution) for 7 days, the gloss retention was 87% and there was no change in the paint film.	
Salt water resistance JIS K5400 8.23	After immersion in 3% sodium chloride solution for 168 hours, there was no change in the paint film.	
Wet Scrub resistance (1000 times) JIS K5400 8.11	Passed	
Humidity and cool-heat cycling resistance	The gloss retention was 97% and there was no change in the paint film.	
Determination of resistance of fungal and mould growth JIS Z2911	There was no fungal grew on the panels and the rating is 0.	
Accelerated weathering resistant for 480 hours ASTM G53-88	Gloss retention – 70% Degree of chalking - > 8 points Negligible change in color	

## **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.

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- Drying time may take at least two (2) or 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.

### Remarks:-

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