

TECHNICAL DATA SHEET

Bonndeco ProxyPro Waterborne Epoxy Primer

Waterborne Epoxy Primer

Product Description

Bonndeco ProxPro Waterborne Epoxy Primer is two component materials consisting of epoxy resin and a water base polyamine hardener. The epoxy coating could be provided a excellent in permeability, high adhesion, resistant to staining and chemical, it is environmental and low pollution

Features & Benefits

- Excellent in permeability
- Excellent in adhesion to substrate
- Good salt resistant
- Low V.O.C.

Properties	
Alkali resistance	≥ 48 hours
Drying Time	Touch dry ≤ 8 hours Full dry ≤ 24 hours
Adhesion (Mpa)	≤ 3

Precaution in work execution

1. If the substrate is made of concrete or mortar, “ProxyPro” should be applied more than 2 weeks after the substrate has settled. An uneven surface may cause uneven thickness of the applied layer, which may lead to cracks and other problems. An uneven surface must be smoothed by mortar without fail.
2. Any moisture contained in the substrate may cause insufficient adhesion. Fully dry the substrate below applying “ProxyPro”, The moisture must be 10% or less when measured by moisture meter.
3. Clean and remove laitance and dust with a wire brush. Oils should be wiped off with a waste cloth (impregnated with thinner) or washed away with water using neutral detergents.
4. All areas should be chipped off of mortar floats to expose a film substrate surface, on which epoxy adhesive is coated, and new mortar should be placed.
5. Confirm floating portion with a hammer, drill holes and inject the epoxy adhesives therein.
6. Cracks should be cut away in a V-shape, filled with epoxy putty and finish smoothly.
7. If the substrate is iron plates, completely remove the old finish, rust should be removed well.

Application Surfaces

Suitable for using on varies kind of floor substrates as carpark, shopping mail, school and factory etc. It is also suitable for metal surface for improving the adhesion prior to apply other topcoat system.

Application

Roller, Spray, Brush

Glossiness

Glossy

Color

Standard color chart from Bonndeco tailor made color

Package available

5kg/set (4kg + 1kg) or
20kg/set (16kg + 4kg)

Thinning ratio

GWE 210 (component A) and GWE 210H (Component B) = 1:3 (proportion). There (3) to Four (4) parts water for diluting after stirring even.

Drying time

At least eight (8) hours for dry to seven (7) days for full dry (25°C, humidity <70%) depending on the weather condition at the time of application.

Theoretical spreading ratio

Approximately 30-40m²/coat/5kg/set
Approximately 120-160m²/coat/20kg/set
(According to substrate condition)

Pot Life

Within 45 minutes after mixing

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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Application manual

Bonndeco ProxPro waterborne epoxy primer floor paint application procedure and mixing ratio:

A. Substrate preparation

- For cement floor substrate: Grinding the concrete/cement floor with a grinding machine to clear out dust, stain and loose parts etc. Keep the substrate dry before applying topcoat

b. The primer blending and construction

- Open the bucket cover and mix evenly with the waterborne epoxy sealing primer GWE 210 (component A) with GWE 210H (Component B) according to below mixing ratio, 50% of the total amount of water shall be added for diluting and stirring evenly. The wood roller could be used for application.

Mixing Ratio:

GWE210 (Component A): GWE210H (Component B):

Water = 1:3:2

Note for prioritization:

- GWE 210 (Component A): GWE 210H (Component B) – 1:3 stirring. After mixing of component A & B, adding water and diluting well. It should not be stirred for these three materials at the same time.
- In case of sugaring and ash-sanding on the floor substrate, it is necessary to apply two coats of primer to improve the strength the floor.

The first coat primer is the penetrate primer, and the amount of water to be added must be increased. The ratio is GWE 210 (Component A): GWE 210H (Part B): Water=1:3:4 (water shall be divided into separate application and stirring it evenly).

The mixing ratio for second coat primer is: GWE 210 (Component A): GWE 210H (Component B): water = 1:3:2

- Using long-roller for primer and make it evenly applies onto floor substrate. After curing, the floor shall be repainted if the primer is not enough.

C. Repairing pits point and cracks

Paint mixing ratio: GWE 210 (Component A): GWE210 H (Component B) = 1:3 after mixing of component A & B, adding 25% of water of total volume for further diluting and mixing. The application method is consistent with the primer.

Aggregate mixing ratio: fine sand/coarse sand: cement = 1:1

The coarse sand particle size shall be according to the depth of the pit and matched with fine sand. The fine sand particle size shall be half of the coarse sand particle size (20-40 mesh for the coarse sand and 40-70 mesh for the fine sand).

The aggregate shall be added into the liquid admixture and stirring well. (Mixing ratio paint: aggregate = 1:4-6)

D. Middle painting and application

60-80 from quartz sand for thickness within 1mm: 80-120 mesh quartz sand = 1:1 40-70 mesh quartz sand for more than 1mm thickness: 80-120 mesh quartz sand = 1:1 Mixing for paint: aggregate = 1:1.2 ~ 2.0

Application Precautions

- Apply even and coat film thickness be according to the thickness of aggregate.
- Corners and corners should not be too thick.
- Must be added additional and mortar
- Coarse sand aggregate coating should be used for surface depression location for smoothing the surface.
- Fine sand aggregate coating should be applied after using coarse sand aggregate coating.
- Topcoat and application:
Topcoat mixing ratio: GWE 410 (Component A): GWE 410H (Component B) = 1:5 After mixing evenly, adding of 20-25% of water to dilute.

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Job Reference

Project	Main Contractor /Owner	Year
豐寓 Edition 178, 178 Hing Fong Road, Kwai Chung	Vervain Resources	2018-2019
AKVO Hotel, 57 Jervois Street, Sheung Wan	Hansion Construction Holdings Ltd	2015-2017
亞洲貨棧物流中心 Renovation Works for G/F Lift Lobbies, Drop Off Area & Public Area at G/F of Centre A&B of ATL Logistics Centre, Berth 3, Kwai Chung	ATL Logistics Centre Hong Kong Ltd	2015-2106

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