

TECHNICAL DATA SHEET

Bonndeco Tile Filler

Cement-based – GP100C

Product Description

Bonndeco Tile Filler is combined of two components includes mortar powder A and mortar binder B. The mortar powder is made of high molecular polymer rubber powder and glue with anti-cracking fiber, high quality cement, filler and auxiliary agent. It has strong adhesive force, crack resistance, water resistance, alkali resistance and vapour permeability. Bonndeco Tile Filler – rough type is suitable for exterior wall and Tile Filler – fine type for interior type.

Features & Benefits

- Good adhesion for the substrate and paint system.
- Low water absorption and high hydrophobicity.
- Low modulus of elasticity and good crack resistance.
- Good workability and resistance to drooping.
- Non-toxic and environmentally friendly, easy to use.
- Two-component tile filler is used for renovation for exterior walls such as mosaics and tiles, which can be directly applied without the need to remove old mosaics and tiles.

Properties		
Container Condition		No Lumps, even
Dry time (touch dry)/hour		2 hours
Water resistance (96 hours)		No bubble, crack and chalking
Crack in initial stage (dry time, 6 hours)	One layer < 1.5mm thickness	No crack, 1mm
	One layer > 1.5mm thickness	No crack, 2mm
Polishing		Hand polishing (P type)
Water absorption (g/10min)		0.4
Salt resistance (48 hours)		No bubble, crack and chalking
Water resistance (96 hours)		No bubble, crack and chalking
Bond Strength / (Mpa)	Standard condition	1,19
	Low temperature cycle (5 times)	1.07
Flexibility		No crack and peel off on surface
Resistance to dynamic crack/mm		0.07

Application Surfaces

It's suitable for the application to exterior/interior surfaces of the following substrates:-

- Mosaic Tiles
- Ceramic Tiles
- Mortar Plaster
- Precast Concrete
- Steel Form Concrete

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

Application method shall be by towel. Recoating interval is at least 6 hours (temperature 25°C, relative humidity 65% or less). Application condition under low temperature and high humidity, and then the recoating time is appropriately extended.

Color

Grey

Package available

20kg/bag(powder)
2.5kg/bottle(mortar binder)

Mixing ratio

Mixing a bag of 20kg powder A with approx. 30~40% of water and mix well. Add 2.5kg binder B subsequently and mix well

Drying time

At least 3 days prior to apply Bonndeco products

Theoretical spreading ratio

Mosaic Tile: Approximately 1.2-1.5 kg/m²/coat with 1mm thick

Mortar and Concrete Surface: Approximately 1 kg/m²/coat with 1mm thick

(According to substrate condition)

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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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.
- e. Recheck surface after repair to assure satisfactory condition prior to Bonndeco application.

Old Surface

- a. 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 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) 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.

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