

## BONDIT HYDROPEL

*(High performance, hydrophobic, Breathable waterproofing drying cementitious plaster)*

### PRODUCT DESCRIPTION

BONDIT HYDROPEL is specially designed cementitious, premixed, dry plaster powder that provides impermeable waterproof membrane when applied to concrete substrate. Its hydrophobic property ensures a breathable and leakproof system. The ingredients involved are environment friendly and non-flammable.

### FEATURES & BENEFITS

- Applicable to wet surface.
- Excellent Breathability
- Resistance against Frost, sulfate attack and salt crystallization.
- Easy to apply either manually (trowel) or with a spray applicator.
- Economic as no additional membranes or ceilings required.
- Used as waterproof membrane.
- Excellent bonding strength
- Environment friendly ingredients
- Resistance to salt efflorescence.
- Non toxic ingredients

### AREA OF APPLICATION

- Shafts, underground constructions and cellars.
- Permanent repair of dampened, salt- damaged walls of old buildings
- Structural stuccoing to avoid water ingress.
- Bathrooms, shower bath, balconies
- Concrete tanks, terrace gardens, planter boxes and swimming pool.

### APPLICATION INSTRUCTIONS

#### Surface preparation

- Before applying BONDIT HYDROPEL, all the existing plaster, loose particles, stucco, mould, residual paint, Oil, dust and other impurities should be removed.
- Damaged wall or brick should be repaired. In case of salt efflorescence, a depth of 18 -22 mm should be scraped at the joints.
- If used as a repair mortar, the existing plaster should be scraped off 25- 45 inches above the water ingress area.
- Surface should be cleaned with wire brush/ water/ high-pressure air.
- Surface should be brought to SSD condition and dampened before the application.



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- For better adhesion, thin slurry of cement+ water mixture should be applied onto the surface before plastering.
- In case there is any active water leakage on the surface to be plastered, it needs to be stopped for atleast 3 days, to allow the proper curing and setting of plaster.

### Mixing

To a 25 kg bag of BONDIT HYDROPEL, approximately 5.5 to 6.5 liters of water is added slowly to an electrical high speed mixer and stirred for 10-15 min.

### How to apply

- Lay the mixed plaster on the prepared surface manually or use a spray applicator.
- The minimum thickness of one layer should be maintained at 8-10mm.
- Maximum of 3 layers can be laid. It is advisable to make the surface slightly rough before applying the next layer.

### Precaution

- To avoid the plaster from drying too fast, keep the surface wet constantly for 2 days.
- By doing this, cracking of the plaster can be minimized as optimal moisture is required for permanent hydration of cement.
- Once curing gets completed, the surface gets ready for painting or laying tiles.

### Points to note

- Do not apply the product directly under sunlight.
- The applied coat should not be exposed to rainwater.
- Substrate should be under SSD condition and moistened before drying.
- Do not add anything to the premixed powder from outside.
- Mix only small quantities that can be applied within the stipulated pot life.
- Setting time of the plaster varies with the difference in temperature.
- Do not add water to hardened mortar.
- Ideal temperature of application is +5°C to +35°C with RH of 85%.

## TECHNICAL DATA

### Physical characteristics

Property	Typical Values
Appearance	Grey Powder
Bulk Density @27°C, kg/cm <sup>3</sup>	1.28 ± 0.10
Layer Thickness	10 mm per layer
Surface dry time	90 minutes
Pot Life	60 minutes



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# WATERPROOFING

Water Permeability (ml/cm <sup>2</sup> after 48 hours)	EN 1015-21	0.46
Flexural Strength, N/mm <sup>2</sup>	ASTM C348	≥ 6

## TICAL COVERAGE

2.0-2.5 m<sup>2</sup>/bag for 10 mm layer thickness

## PACKING SIZE

25 kg

## SHELF LIFE & STORAGE

12 months. Should be stored in clear and dry area in an unopened packaging at ambient temperature.

THEORE



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