

DONCRETE- WP

HEAVY DUTY, HIGH SOLID CONTENT (50%), ACRYLIC WATERPROOFING COATING

Description

DONCRETE - WP is a high solid content (50%) acrylic co-polymer liquid, which when mixed with cement, forms a matrix & hence provides excellent waterproofing properties. It can also be used as a bonding agent for new to old cementitious substrates & as an additive for repair mortars.

Features & Benefits

- Waterproofing-Improves waterproofing properties when used as a coating mixed with cement
- Chloride-free-Contains no chloride hence lesser chances of chloride contamination
- Bonding-Provides excellent bond to concrete & masonry plaster
- Strength Improves tensile, flexural and compressive strength as compared to control concrete hence increases the durability of structures.

Areas of Application

Waterproofing of concrete and sand-cement mortar used in

- Waterproofing - Additive with cement for waterproofing of roofs, walls & water storage tanks.
- Concrete repair- Additive for cement: mortar for repairs to spalled concrete, floor, columns, beams, chajja, slab etc
- Bond coat-Bond coat for old to new concrete & masonry plaster.
- Priming - Reinforcement steel

Standard Compliance

Meets the requirements of BS 6319 Part 4:1984, 85 7542:1992, BS 6319 Part 2: 1983

Method of preparation

Waterproofing

1. Surface preparation

- Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable solvents.
- Repair the spalled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid featheredging & to provide strong bond.
- Clean the concrete surface to remove any contamination where breaking is not possible. Roughen the surface by light scabbling or grit blasting.
- For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application.

As a Waterproofing Coating

- For a waterproofing coating Mix **DONCRETE - WP**: Cement in the ratio 1:1 by volume.
- Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to **DONCRETE - WP** until the required consistency is achieved
- Brush apply 2coats of the mix in a span of 4-6 hours on the prepared concrete substrate
- Overlay the coating with a protective screed to the desired slope & thickness.

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As a Bonding Primer

- For a bonding primer mix **DONCRETE - WP**: Cement in the ratio 1:1 by volume
- Brush apply 1 continuous coat of the mix on the prepared concrete substrate
- Ensure to overlay the repair mortar when the bond coat is still tacky

As an additive for Repair Mortars & Renders

- A suitable mix ratio for patching repair mortar or render is as follows:
- Mix design-Portland Cement: 50 kg. Washed sand: 150 kg. **DONCRETE - WP**: 5 kg & Water: 15-20 Lit

As an Additive for Floor Screeds & PCC

- A suitable mix ratio for patching repair mortar or render is as follows:
- Mix design Portland Cement: 50 kg. Washed sand: 75kg, 6mm downsize aggregates: 75 kg
DONCRETE - WP: 5 kg & Water: 15-20 Lit

As a coating for Reinforcing Steel priming:

- Apply one coat of **DONCRETE - WP** mixed cement slurry (1:1 by volume) to all exposed steel reinforcement and allow it to dry.
- A second coat application is also recommended. Allow it to dry. The surface should be thoroughly soaked with clean water prior to application of **DONCRETE - WP**.
- Apply **DONCRETE - WP** with brush or rollers on the substrate and avoid ponding and remove any excess material. The repair or topping application should be carried out whilst the primer is still tacky.

Precautions & Limitations

- Recommended dosage to be followed to achieve desired results.
- When working in hot temperature conditions, extra water may be added to the repair mortar to compensate for the evaporation loss & make the mortar workable.
- When using as a waterproofing coating, work on a saturated surface dry cementitious substrate.

Technical Information

Properties	Specification	Results
Appearance		Milky white liquid
Adhesion strength to concrete, N/mm ²	BS 6310 Part 4:1984	38
Pot life, mins		60
Solid Content, %		50% +- 1%
Compressive strength, N/mm ²	BS 6310 Part 2:1983	10-13 at 7 days
Chloride content		Nil
pH		9

Coverage

- As a waterproofing coating: 30-35 sq.ft./kg in 2 coats
- As a mortar modifier: 5 kg of **DONCRETE - WP** per 50 kg of cement
- As a bonding agent: 45-50 sq.ft./kg per coat

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Packaging

1,5,10 & 20 Kg

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing in unopened condition.
- Store in cool & dry place, away from direct sunlight and at a temperature not more than 30°C.

Health & Safety Precautions

- DONCRETE - WP is non-flammable.
- Wear suitable protective clothing, gloves, eye protection and respiratory protective application.
- In case of contact with skin, rinse with plenty of clean water and then cleanse with soap water.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.

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TECHNICAL COLLABORATION WITH



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