

HIGH STRENGTH Si BOND POLYMER FOR BEST IN CLASS WATERPROOFING

Description

Dr. Fixit All Seal is based on modified co polymer enriched with special additive designed for cementitious composition. When added as a polymer, It offers excellent workability, uniform coating, stable slurry dispersion, easier and faster application resulting best waterproofing properties..

Typical Application

- Waterproofing - Sunken portion of bathrooms and toilets, balconies, exposed roof before finished screed.
- Concrete Repair - Spalled concrete, repairing of beam and per-cast slab, chajjas etc.
- Plaster Repair - Repairing plaster or making waterproof screed which is better than normal plaster.
- Bond Coat - For bonding old concrete to new concrete, plaster, brick masonry.

Feature & Benefits

- High strength Si Bond polymer - Bonds strongly to concrete, masonry, stonework, plasters, cementitious surfaces.
- Shrinkage/crack control - High flexural / tensile strength to control cracking.
- Enhanced Rheology : Enables roller application , leading to time saving with easy and faster application
- Mortar modifier - Homogeneous fresh mix, easy to apply and place.
- Cracking / Shrinkage - Reduced shrinkage and cracking tendency.
- Repairs - Overall very high strength and durability.
- Easy to identify: Inherent characteristic of polymer, no spot can be left untreated
- Excellent dispersion of cement particles : It covers the surface evenly and forms uniform polymer rich coating.

Method of Application

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 scrubbing 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.

2 WATERPROOFING COATING

- For a waterproofing coating Mix Dr. Fixit All Seal: Cement in the ratio 1:1 by volume.
- Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to Dr. Fixit All Seal until lump free required consistency is achieved.
- Roller/ Brush apply 2 coats 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.

3 BOND COAT

- For a bonding coat of Dr. Fixit All Seal mix : Cement in the ratio 1:0.5 by volume.
- Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to Dr. Fixit All Seal until lump free required consistency is achieved.
- Roller/ 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.



4 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, Dr. Fixit All Seal : 3-4 Kg & Water: 12 - 15 litres

5 FLOOR SCREEDS & PCC

- Mix design - Portland Cement: 50 kg, Washed sand: 75 kg, 6 mm downsize aggregates: 75 kg, Dr. Fixit All Seal : 4-5 Kg & Water: 10 - 12 litres.

MIXING & APPLICATION

- A forced action mixer is essential (PAN Mixer) & recommended to ensure that Dr. Fixit All Seal is thoroughly mixed. Use a suitable sized drum with heavy-duty electrical drill machine fitted with spiral paddle mixer at slow speed of 400-500 rpm.
- Charge the mixer with required quantity of clean & dry sand (or coarse aggregates as needed), cement & mix for 1-2 minutes, then add the recommended dosage of Dr. Fixit All Seal dispensed in water which is pre-batched. Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding water until the required consistency is achieved.

CURING

As soon as the Dr. Fixit All Seal modified mortar and screed achieves its final set, adequate moist curing shall be carried out for 3-4 days. Water sprinkling, ponding or the use of a non-degradable type of curing compound may be used.

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.
- All surfaces including edges must be primed.
- All applications should be wet on wet; the primer must not be allowed to dry. The level of added water in the mix designs may need adjusting to achieve the required consistency.
- In general water content should be kept to the minimum necessary.
- For consistent performance the use of clean, dry sand is recommended. Where wet sand is used, reduce the added water level as appropriate.
- Protect uncured mortar from frost. Do not retemper mortar or primer after initial set.
- Application to be carried out from 10 degC to max 40 degC.

Technical Information

PROPERTIES	RESULTS
Nature type	Bluish, Polymer
Total solids % by mass @ 105°C	45.0 - 48.0
Relative density	~1.01
pH	7.0 - 10.0
Compressive Strength of Mortar	~23Mpa
Slant Shear Strength	~3Mpa

Theoretical Coverage & Dosage

- For Waterproofing - DRF Allseal : Cement in the ratio of 1:1 by Volume in two coats 2.0 to 2.4 m²/kg
- For Bond Coat - DRF Allseal : Cement in the ratio of 1:0.5 by Volume
- For Repair Mortars & Renders - 3 to 4 kg of DRF Allseal per bag of cement

Packing

1 kg, 5 kg, 10 kg, 20 kg

Shelf Life

- Best before 2 years from the date manufacture when in sealed pack and stored under proper condition.
- Store in a cool & dry place in unopened condition away from direct sunlight.

Health and Safety

- Cementitious mortars & slurries modified with Dr. Fixit All Seal when mixed or when become damp, may release alkali which can be harmful to skin & eye.
- Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment during 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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