



Dr. Fixit Pidicrete URP

SBR LATEX FOR WATERPROOFING & REPAIRS

Description

Dr. Fixit Pidicrete URP is based on modified styrene butadiene latex supplied as a ready to use bonding agent in liquid consistency. It is used for repair of spalled concrete – floors, columns, beams, chhajjas, slabs & waterproofing of toilets & bathrooms, small terraces etc. as it bonds strongly to old & new concrete and to plasters. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance.

Standard Compliance / specification

Meets the requirements of BS 6319 part 2:1983 & ASTM C 190-85 standards

Areas of Application

- For concrete repairs - Spalled concrete of floors, columns, beams, chajja, slabs, parapets, etc.
- For waterproofing – Small roof terraces, sunken portions of toilets & bathrooms, chajja & lift pits, balconies.
- As a bond coat – For bonding of new concrete to old concrete, masonry stone work, plastering.
- For cladding – Fixing or re-fixing of slip bricks, tiles, stones & marble bedding.
- As external rendering – Weatherproof & frost resistant render.
- As bonding slurry coat for pinhole treatment on concrete surface.

Features & Benefits

- Multipurpose – It is multipurpose & economical product, easy to use.
- Cracking – It prevents cracking by improving flexural strength.
- Hardness – Improves the hardness & prevents dust generation.
- Shrinkage – Reduces drying & aging shrinkage cracks.
- Bonding – Bonds strongly to concrete, masonry, stonework, plasters, cementitious surfaces.
- Erosion & corrosion – Improves erosion resistance & prevents corrosion.
- Abrasion resistance – Improves abrasion resistance of the cement mix.
- Grouting – Reduces viscosity of cement injection grout for better fluidity & bonding.

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 URP: Cement in the ratio 1:1.5 by volume.
- Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to Dr. Fixit Pidicrete URP until the required consistency is achieved.
- 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 BONDING PRIMER

- For a bonding primer coat of Dr. Fixit Pidicrete URP mix URP: 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.

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 Pidicrete URP: 6-7.5 kg & Water: 10 Lit

5 FLOOR SCREEDS & PCC

A suitable mix ratio for patching repair mortar or render is as follows:

- Mix design - Portland Cement: 50 kg, Washed sand: 75 kg, 6 mm downsize aggregates: 75 kg, Dr. Fixit Pidicrete URP: 6-7.5 kg & Water: 10 Lit

6 MIXING & APPLICATION

- A forced action mixer is essential (PAN Mixer) & recommended to ensure that Dr. Fixit Pidicrete URP mortar 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.
- Hand mixing is permissible only for 25 kg or less quantity.
- 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 Pidicrete URP 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.

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.

Mix Design Using Dr. Fixit Pidicrete URP

Wide range of mix designs are recommended for different application using Dr. Fixit Pidicrete URP

	Application	Composition	Quantity of Dr. Fixit Pidicrete URP	Consistency & thickness
1	Patching & repair mortar	Cement – 50 kg Washed sand: 150 kg Water: 10 Lit	6 -7.5 kg	Mortar consistency, 5-25 mm thickness
2	PCC/Floor Screed	Cement – 50 kg Graded & washed sand – 75 kg Coarse aggregates (6mm down size) - 75 kg Water – 10 Lit	6 – 7.5 kg	Mortar consistency, 10-40 mm thickness
3	Waterproofing coating	Cement – 50 kg	20 - 22 kg	Brushable consistency
4	Slurry for pin hole treatment & grouting	Cement – 50 kg Water – 5 Lit	5 kg	Slurry consistency

Technical Information

PROPERTIES	RESULTS
Nature	Milky white, translucent, free flowing liquid
Type	SBR Latex- (Styrene Butadine Rubber latex)
Total solids % by mass @ 105°C	38 ± 1
pH value	7.5 - 9.5
Sp. gravity at 27.5°C	1 - 1.05
Coverage (URP:Cement in 1:1.5 ratio) in 2 coats, as a waterproofing slurry coat	2 -2.2 m ² for the mix of 1 part of URP and 1.5 part of cement

Dosage

- As a waterproofing coating – Mix proportion by volume 1:1.5 (Dr. Fixit Pidicrete URP: Cement).
- As a mortar modifier – 10-15 % of Dr. Fixit Pidicrete URP by weight of cement.
- As a bonding agent – Mix proportion by volume; 1:1 (Dr. Fixit Pidicrete URP: Cement).

Coverage

- As a waterproofing coating - 2 – 2.2 m²/kg in 2 coats.
- As a mortar modifier – 6-7.5 kg of Dr. Fixit Pidicrete URP per 50 kg of cement.
- As a bonding agent – 4.2 – 4.5 m²/kg per coat.

Packaging

0.2 kg, 0.5 kg, 1 kg, 5 kg, 10 kg, 20 kg & 50 kg

Shelf Life & Storage

- Best before one and half 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 & Safety Precautions

- Cementitious mortars & slurries modified with Dr. Fixit Pidicrete URP 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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