

Description

Hydrocrete is based on modified styrene butadiene latex supplied as a ready to use bonding agent in liquid consistency . It is used for damage concrete like floor, beam, columns, chajjas slab, waterproofing of toilets & bathroom, commercial tank and small terrace etc. It bonds strongly to old & new concrete and plaster.it reduces shrinkage, prevent cracking, dust pick & improve abrasion resistance

Area of Application

- For concrete repairs
- Damage concrete of floors, columns, beams, slabs, parapets etc
- As a bond coat
- For bonding of new concrete to old concrete, masonry stone work and plastering
- For cladding
- Fixing or re- fixing of slips bricks, tiles, stones and marble bedding
- As external rendering
- Waterproof & frost resistant render

Features & Benefits

- multipurpose - It is multipurpose & economical product easy to use.
- cracking - It prevents cracking by improving flexural strength.
- shrinkage - reduce drying & aging shrinkage cracks
- bonding - bond strongly to concrete, stonework, masonry, plasters, cementitious surface, and most of the building materials
- Hardness - improve the hardness and prevent dust generation
- erosion and corrosion - improves erosion resistance & prevent corrosion
- abrasion resistance - improves abrasion resistance of the cement mix
- grouting - reduces viscosity of cement injection grout for better fluidity and bonding.

Method of Application

1.surface preperation

* Clean the surface properly with wire brush to remove the oil, grease and dirt

* Repair damage concrete with the help of saw, cutting the edges of the repair location to a depth of at 10mm to 12mm to avoid feather edging and provide bond

* Clean the concrete surface for remove any contamination where breaking is not possible. Roughen by light scrubbing or grit blasting

2 .waterproof coating

- * For waterproofing coating mix **hydrocrete** . cement in the ratio of 1:1.5 by volume
- * Mix for 3 to 5 minutes to avoid entrapment. Keep on slowly adding cement to **hydrocrete** until the required consistency is achieved.
- * Apply by brush 2 coats of the mix in time of 4-6 hours on the prepared concrete substract

3 bonding primer

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

4 repair mortar and renders

- * Mix design- portal cement 50 kg, washed sand 150 kg, **Hydrocrete** 4 to 5 kg & water 10 to 12 litre

5 floor screed & pcc

- * Mixed design - Portland cement 50 kg washed sand 75 kg 6 mm downsize aggregate 75 kg & 10 to 12 litre water

6 mixing and application

- * A forced action mixed is must and recommend to ensure that **hydrocrete** mortar is mixed is throughly mixed. Use a drum with electrical drill machine filled with spiral paddle mixer at slow speed of 400 to 500 rpm
- * Hand mixing is permissible for only 25 kg or less quantity
- * Charge the mixer with required quantity of clean and dry sand , cement & mix for 1-2 minutes then add the recommend dosage of **hydrocrete** in water which is prebatched. Mix for 2-3 minutes for air entrapment. keep on slowly adding water until the requi consistency is achieved

4 APPLICATION

• Wide range of mix designs are recommended for different application using **Dr. Fixit Pidcrete URP**.

Sl No.	Application	Composition	Quantity of Dr. Fixit Pidcrete URP	Consistency & thickness
1	Patching & Repair Mortar & dry	<ul style="list-style-type: none"> • OPC - 50 Kg • Graded sharp & washed & dry sand - 150 Kg • Water - 10 litres 	10 litres	Mortar consistency, 6-40 mm thickness
2	Heavy duty floor screed	<ul style="list-style-type: none"> • OPC - 50 Kg • Graded sharp & washed sand - 75 Kg • Granite chips (3-6 mm) - 75 Kg • Water - 6 litres 	10 litres	Semi dry cohesive consistency 10-40 mm thickness
3	Renders	<ul style="list-style-type: none"> • OPC - 50 Kg • Graded sharp & washed sand - 150 Kg • Water - 6 litres 	10 litres	Mortar consistency, 6-9 mm thickness
4	Bonding Mortar for slip bricks & tiles	<ul style="list-style-type: none"> • OPC - 50 Kg • Graded sharp & washed sand - 125 Kg • Water - 7 litres 	10 litres	Mortar consistency, 6-40 mm thickness.

Limitations

- * Recommended dosage to be followed to achieve desired results
- * When working in hot temperature conditions, extra may be added to the repair mortar to compensate for the evaporation loss & make the mortar workable

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Base		SBR Latex (styrene, butadiene rubber)
Coverage OPCs: URP, 1:5 pbwt		20 - 22 sq ft/kg for two coats 1:1.5
Total active solid content		34 ± 2%
pH		8 - 9
pot life @ 30°C		30 - 45 minutes at 30°C
Specific gravity at 30°C		1.01 +/- 0.02
pH		7 to 9
Compressive strength, N/mm ² - 7 days	(BS6319 part2:1983)	Passes the specification.
Tensile strength, N/mm ²	(ASTM C - 190-85)	Passes the specification
Flexural strength, N/mm ²		9>
Slant shear bond, N/mm ²	ASTM B81	30
Chemical resistance to mild acids, alkalies, sulphates.		Resists
Resistance to water pressure, bar		Upto 2
Freeze thaw resistance		Excellent

Packaging

- 20kg, 50 kg

Dosage

- * For waterproofing coating - mix proportion by volume 1:1.5
- * For mortar modifier - 10% to 15% of **Hydrocrete** by weight of cement
- * For bonding agent - mix proportion by volume 1:1

Coverage

- * For waterproofing coating 20- 22 sqft/ kg in 2 coats
- * For mortar modifier - 5 kg of **Hydrocrete** weight of cement
- * For bonding agent 40-45 sqft/ kg

Shelf life & storage

- * Best before 24 months from the date manufactured when in sealed pack and stored under proper condition
- * Store in a cool dry place and away from direct sunlight

Health and safety precautions

- * Cementitious mortars and slurry modified with **hydrocrete** when mixed or when become damp. May release alkali .which can be harmful for skin and eye
- * Wear protective cloth, gloves, protective goggles and respiratory protective equipment during application
- * In case of contact with skin. Wash with plenty of water and the Clean with soap of water
- * In case of contact with eye, wash immediately with plenty of water and seek medical device.