

D+ULTRACRETE-112

Single Component Acrylic Polymer



DESCRIPTION

D+ULTRACRETE-112 is formulated to be mixed with cement on site or simply brush applied over concrete or masonry surfaces to provide an effective waterproof membrane. D+ULTRACRETE-112 acrylic polymer in conjunction with cement provides a seamless waterproof coating to concrete and masonry surfaces. It can be used as a waterproof or protective coating.

Advantages

- Non - toxic, non-flammable and used in portable water tank - user friendly
- Provides a tough, impermeable waterproof membrane
- Can be applied by brush, on horizontal and vertical surfaces
- Excellent adhesion to concrete and masonry surfaces
- Protects concrete and mortar from natural elements such as wind, rain, sunlight
- Reduces water absorption making the adhesives waterproof
- Increases the flexibility of adhesives, preventing cracking
- Breathable allows inside water vapor to escape
- Enhances the slip resistance & bond strength of adhesives
- Adhesives mixed with the polymer can give better impact strength
- Protects against water penetration, salt & carbonation
- Resistance to ultraviolet light or by chemicals resistance from mild acids to strong alkalies

Compliance standard

ASTM C1202 WRAS - "Suitable for use in contact with portable water" - BS 6920: 2000

Applications

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
- Bond coat – Bond coat for old to new concrete & masonry plaster
- Priming – Reinforcement steel.

TECHNICAL SPECIFICATION

TECHNICAL PROPERTIES: (Typical Values)			
Appearance / colour	Milky White Acrylic Emulsion	PH	7 – 9
Application temperature	Not less than 10°C	Water absorption	≤1% maximum
Solid Content	30.25 ± 0.2 %	Shelf Life	12 months from the date of manufacturing in company pack
Pot life @30°C	45 min	Toxicity	Non toxic
Chloride content	Nil	Packaging	200 kg, 50 Kg, 20 kg, 5 kg, 1 kg

HEAD OFFICE:

506, Parshwanath Business park, opp
Prahlanagar garden, SG highway, Ahmedabad,
Gujarat, India. 380015

D FIX ENTERPRICE I M +91-9925460107
customercare@dfix.co.in I www.dfixindia.com

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MIXING TABLE

SR No.	APPLICATION	MIXING RATIO	THICKNESS
1	Waterproofing coats	D+Ultracrete 112(1 kg) : Cement(1kg)	2 coats by Brush application
2	Bonding primer	D+Ultracrete 112(1 kg) : Cement (1 kg)	1 coats
3	Waterproof plaster/Repair Mortar	Cement (50 KG): Clean sand (150 KG) : Water (10 -15 Ltr.) : D+Ultracrete 112 (5 KG)	6-40 mm
4	Floor Screed / PCC	Cement (50 KG) : Clean sand (75 KG) : Aggregates -6 mm coarse (75 KG) : Water (10-15 Ltr.) : D+Ultracrete 112 (5KG)	10- 40 mm
5	Bond Coat	Cement (2 kg) : Ultracrete -112 (1 kg) : Water (0.5 kg)	1 coat
6	Cement putty coating	Putty(2 kg) : D+Ultracrete 112(1 KG)	-
7	Cement Slurry/ Coating	Cement (2 kg) : Ultracrete -112 (1 kg) : Water (0.5 kg)	-
8	Coating for reinforcing steel priming	D+Ultracrete 112(1 kg) : Cement (1 kg)	2 coats by Brush application

Method of Application

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. 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.

WATERPROOFING COATING Prepare the slurry coat as indicated in the Mixing table. While making slurry, always add cement to D+Ultracrete 112, slowly with constant stirring. Mix in suitable size container using a high speed electric drill machine with spiral paddle at 400 to 500 rpm speed. Brush 2 coats of this homogeneous slurry in parallel and perpendicular direction. 2nd coat is to be applied at least 4-6 hours after the 1st coat dried.

BONDING COAT Prepare the bonding coat as indicated in the Mixing table. Apply the single coat of bonding agent to obtain a thin layer. When the bond coat is still fresh and sticky, apply the mortar or concrete, approximately after about an hour. During application the mixture of D+Ultracrete 112 and cement needs to be continuously stirred to prevent the cement particles from settling. Prepared material must be used within 20–40 minutes depending upon temperature, humidity, etc.

FLOOR SCREED & PCC Prepare the concrete or screed as indicated in the Mixing table. Apply a thin layer of bonding coat as given above. Place the concrete or screed using suitable tools using standard industry practice.

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REPAIR MORTAR / WATERPROOF PLASTER Prepare the polymer mortar as indicated in the Mixing table. Apply a thin layer of bonding coat as given above. Apply the mortar onto the surface in a layer of 20–30 mm thickness. This type of polymer mortar should be used for all repair jobs for optimum performance. For higher thickness, apply in multiple layers at intervals of 12 hours.

COATING FOR REINFORCING STEEL PRIMING Prepare the coating for Steel Priming as indicated in the Mixing table. Apply Mixed prepared paste to all exposed steel reinforcement and allow it to dry. A second coat application is also recommended. Allow it to dry. Apply D+Ultracrete 112 with brush or rollers on the substrate to avoid and excess material. The repair or topping application should be carried out whilst the primer is still tacky.

CURING TREATMENT During the first 12 hours of curing, it must be protected from abrasion, rain and other adverse conditions. No traffic shall be allowed on a D+Ultracrete 112 treated surface within 48 hours after application. After application of final coat of D+Ultracrete 112, initial air drying shall be done for 4-6 hours. During this period no water is to be used for curing. In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After maximum period of 6 hours of the final application moist curing shall be done for the next 24 hours by way of spraying water on D+Ultracrete 112 coating. During this period at no point of time should the D+Ultracrete 112 coating be left completely dry or submerged in water. Following moist curing, the D+Ultracrete 112 coating shall be allowed to air dry for 3 days before submersion in water if required for use.

CLEANING OF TOOLS Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

Coverage

As waterproof coating: 30-35 Sqft / Kg in 2 coat.

As a mortar modifier: 5 kg of D+Ultracrete 112 per 50 kg of cement.

As a bonding agent: 45 – 50 sq.ft./ kg per coat

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 and Safety Precautions

- Protective clothing such as gloves, dust mask and goggles should be worn.
- Treat any contact to the skin or eyes with fresh water immediately.
- Should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.

Additional Information

Do not leave the container with material exposed to sunlight for a long duration. Protect finished work from traffic until fully cured. Do not apply directly on Damp Surfaces. Do not use on wood or metal surfaces. Use mechanical stirrer, when required.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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