

D+ULTRACRETE 2K 113

2 component flexible acrylic - cementitious waterproof coating



DESCRIPTION

D+ ULTRACRETE 2K 113 is a two component acrylic polymer modified cementitious coating which consists of liquid (Part A) acrylic emulsion and powder (Part B) When the dry part is mixed with acrylic emulsion and can simply be applied by stiff brush, roller or trowel to obtain the desired thickness according to direction and the cured. It is made up from best quality Portland cement, properly selected aggregates, additives & acrylic emulsion polymer as a binder.

It will become a tough, flexible and seamless waterproof membrane and acts as an excellent water barrier to Concrete and Masonry Surface.

Area of Application

- Concrete foundations, basements wall and lift pits.
- Swimming pools, water tanks and reservoirs
- Concealed roofs, parking decks, bathroom, toilet, kitchen, balconies and planters.
- Any other concrete, cement or masonry surface subject to damage from moisture.

Features & Benefits

- Good adhesion to concrete and masonry substrates
- Non toxic substances
- Flexibility – Provides a flexible & low permeable coating.
- Diffusion – Excellent resistance to chloride ion diffusion and carbon dioxide.
- Low temperature resistant – Resistance to freeze-thaw cycles and de-icing salts.
- Carbonation – Prevents carbonation of cement concrete.
- Water permeability – Excellent resistance to ingress of water
- Slip resistant – Provides slip resistant coating
- Waterproof – Waterproof for concrete structures
- Environmentally friendly - free Volatile Organic Compound (VOC)
- Can be applied on damp surface.

PRODUCT INFORMATION

Appearance / Colour	Part A+B mixed	Grey slurry		
	Part A	White liquid		
	Part B	Grey powder		
Chemical base	Part A	Acrylic polymer		
	Part B	Portland cement with selected aggregates and additives		
Packaging	Part A+B pre-batched	3 kg,	15 kg,	30 kg
	Part A	1 kg,	5 kg,	10 kg
	Part B	2 kg,	10 kg,	20 kg
Application temp.	Not less than 10°C			
Shelf life	18 months from date of production			
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C & +35 °C. Liquid component must be protected from frost.			

HEAD OFFICE:

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Technical Information:

Particular	Standard Specification	Results
Mix Component	-	Mix Ratio (Part A : Part B): 1 : 2
Polymer Content	-	> 18 %
Pot Life	-	40 min. at 27 °C
Water Absorption	-	≤ 1%
Proprietary Polymer	-	High quality modified acrylic Polymer
Set-to-touch time	ASTM D 1640	45 min
Tensile Strength - as cast	ASTM D 412	2.5 N/mm ²
Elongation at Break - as cast	ASTM D 412	60 %
Adhesion to Substrate	ASTM D 4541	0.80 N/mm ²
Adhesion to Concrete at 7 day	ASTM D 4541	1.75 N/mm ²
Immersion in water Adhesion to Concrete at 7 day	ASTM D 4541	1.00 N/mm ²
Crack Bridging	ASTM C 836	Up to 1 mm

Method of Application

Surface Preparation

- The application surface must be thoroughly prepared by mechanical means. Remove dirt, dust & loose particles etc. by air compressor or water jet. Oil & grease must be removed using degreasing solvents. Any damaged surface must be repaired by D+ Crack Seal Paste OR D+ SBR 111 Premium Latex modified repair mortar slurry.

Mixing

- Shake well the liquid container to a homogenous milky colour. Transfer the entire quantity of liquid component into a mixing vessel, gradually start addition the powder component under constant mixing using motor stirrer at slow speed Portable mechanical mixer at 250 – 300 rpm. Mix for approx. 5 – 6 minutes until homogeneous & uniform free flowing slurry formed. Mixing material must be use within recommend pot life.

Application

- The application area must be pre-wetted thoroughly with water and brought to a touch dry state. Use the stiff nylon brush for the application. For the first coat work well into the substrate, to ensure that all small undulations are completely filled with the coating.
- Apply second coat after 6 to 8 hrs. in a direction perpendicular to the first coat. Complete the application and leave to air cure for 2 days.

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- To protect the surface from the effect of direct sun light, place a moist hessian cloth on an application area. For the indoor application leave the coating area without water for at least 2 days.
- In new bathrooms, D+ ULTRACRETE 2K 113 must be applied all over the sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet to cover the splash zone of shower to ensure complete waterproofing.

Curing

- D+ ULTRACRETE 2K 113 For maximum protection, allow 12 to 24 hours curing time after the second coat. requires at least 7 days before filling space, swimming pools and water tanks with water as well as mock-up or pond tests on site” to ‘requires at least 7 days before filling space, swimming pools and water tanks with water as well as mock-up or pond tests on site.

Cleaning

- D+ ULTRACRETE 2K 113 can be removed from tools and equipment immediately after use with clean water, only hardened material can removed mechanically.

Precaution:

- Mix the entire quantity of both the components (Part A & Part B) at once.
- Do not use external powder with the liquid other than the powder offered by us, it will affect the performance.
- Do not add water for dilution.
- Do not flood or over expose the treated surface to water until it is completely cured.
- Never apply onto substrates with bitumen and polyurethane coating finishes.
- Always add powder to liquid to avoid lump formation.
- Never exposed finished coat of D+ ULTRACRETE 2K 113 under direct sunlight.

Coverage:

- Coverage depends upon the nature of the surface to be applied. But on average, smooth surface will give approx. 8 - 10 sq. ft. per kg at in 2 coats. DFT about 500 – 600 microns.

Health and Safety Precautions

- Suitable protection clothing, dust masks, gloves and eye protection should be worn.
- Skin Contact: wash skin with soap & water. Remove contaminated clothes.
- On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- Ingestion: do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

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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