

Techcrete

CHEMLAND CHEMICAL TECHNICAL DATA SHEET



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JHOTWARA INDUSTRIAL AREA, JAIPUR

Chemland Chemicals

Techcrete

Multi Purpose Polymer

Chemland Techcrete is ready to use high solid high performance polymer based on Acrylic co-polymer, it gives excellent waterproofing property when mixing with cement.

PRODUCT FEATURES

- Waterproofing
- Excellent adhesion
- Good tensile and flexural strength
- Excellent durability

AREA OF APPLICATION

- For waterproofing – Small roof terraces, sunken portions, of toilets and bathrooms, chajja and lift pits, balconies
- For bond coat - For bonding of new concrete to old concrete, masonry stone work, plastering
- FOR Concrete Repairs – Spelled concrete of floors, columns, beams, chajja, slabs, parapets, etc.

SURFACE PREPARATION

- Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance and dust. Degrease the surface by using suitable solvents, if required.
- Repair the spelled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to provide strong bond.
- Clean the concrete surface to remove any contamination where breaking is not possible, roughen the surface by light scabbling or grit blasting.

- Before application the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application.

METHOD OF APPLICATION

Waterproofing coating

- For waterproofing, mix Chemland Techcrete : cement in the ratio 1:1 by volume
- Mix for 2-3 minutes to avoid air entrapment, add cement slowly to Chemland Techcrete until the required consistency is achieved
- Apply 2 coats of the mix by brush in a span of 4-6 hours on the prepared concrete substrate
- Overlay the coating with a protective screed to the desired slope and thickness.

Bonding Agent

- For bonding primer coat mix Hi-Tech Chemland Techcrete : Cement in the ration of 1:1
- 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 tracky

Repair Mortars

Mix 5 kg of Chemland Techcrete in mixture of 50 kg cement and 150kg sand along with 15-20kg water , to achieve workable consistency. Overlay the repair when the bond coat is still tracky

Screeds and Concrete

Mix 5kg Chemland Techcrete in mixture of 50kg cement, 75kg sand and 75kg aggregates (5-6mm) along with up to 15-20kg water to achieve workable consistency.

MIXING AND APPLICATION

- A forced action mixer is essential to ensure that Chemland Techcrete is thoroughly mixed.
- Hand mixing is permissible only for 25kg or less quantity.
- Charge the mixer with required quantity of clean and dry sand (or coarse aggregates as needed). Cement and mix for 1-2 minutes, then add the recommended dosage of Chemland Techcrete, 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.

TACHNICAL DATA SHEET

PROPERTIES	RESULTS
NATURE	MILKY WHITE LIQUID
TOTAL SOLIDS%BY MASS A 105.C	1.02
pH Value	7.0-8.0

COVERAGE

- As waterproofing coating 2.75-3.25 sq.mt./ kg in 23 coat
- As a bonding agent 4.15-4.65 sq.mt./ kg per coat

PRECAUTONS AND LIMITATONS

- 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 and make the mortar workable

HEALTH AND SAFETY

Wear appropriate attire especially gloves, mask and eye protection while application, in case of eye contact rinse immediately with water and seek immediate medical treatment.

Cleaning

Wash all tools with clean water immediately after application.

Storage condition

- Suggested to store in cool, dry and well ventilated place away from heat sources.
- Keep container tightly closed in secure upright position.
- Do not store near need drinks or animal feed.
- Keep out of reach of children.

Shelf Life

1 year from the date of manufacture in original tightly closed container.

CHEMLAND CHEMICALS

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