

**CEMENTITIOUS
WATERPROOF**



CEWAY-FX[®]

Flexible Cementitious Waterproofing Membrane

JV POLYMERS
innovative coating

DESCRIPTION

CEWAY-FX® is a two-component, flexible cementitious waterproofing membrane. It is reinforced with specially selected and graded fine quartz. When blended, **CEWAY-FX®** forms a flexible matrix of polymer and hydrate structures. This provides a breathable membrane which allows water vapour transmission but is impermeable to liquid water. **CEWAY-FX®** is easily applied as a slurry onto horizontal and vertical surfaces. No priming is needed as **CEWAY-FX®** has good substrate adhesion.

ADVANTAGES

- Can be applied on damp surfaces
- Cracks-bridging ability
- Good substrate adhesion
- Non-toxic ideal for confined areas
- Flexible and cementitious
- Easy-to-apply

USES

- Bathrooms, Toilets and Kitchens
- Balconies and Planter boxes
- Swimming pools
- Water Tanks (Complies SS 375:1994)
- Environmental Decks
- Basements walls

APPLICATION

SURFACE PREPARATION

All concrete substrates must be cleaned to remove contaminants such as oil, grease, dust, laitance, etc. Any sharp uneven surfaces must be leveled by hacking and / or topping of the substrate with a mortar screed. Similarly, weak and porous substrates must be made sound by hacking and screeding. If a porous substrate is of acceptable strength, an additional layer of **CEWAY-FX®** can be used as a priming coat before the actual application. Pre-saturate all substrates with water prior to application. Do not allow ponding of water; use a sponge to soak up excess ponding water. All wall / floor joint, pipe penetration must use mortar fillet to reduce angle of turn.

MIXING

Mix up the liquid component (Part B) by shaking or turning the container. Pour the liquid into a clean container. Stir with a variable speed planetary paddle mixer. Use low speed for stirring and avoid foam formation. Pour the powder (Part A) slowly into Part B in the container with the mixer on high speed. Avoid lump formation during mixing and move the mixer head up & down the container. Mix until a homogeneous slurry is obtained. Check for any unmixed powder at bottom of the container.

PLACING

Mortar fillets should be installed at all wall / floor joints before **CEWAY-FX®** application. A roller or a broad, soft brush may be used to apply the **CEWAY-FX®** slurry on horizontal and vertical surfaces. A paint brush should be used in corners and narrow spaces. At least 2 layers of **CEWAY-FX®** must be applied. The layers should be applied in cross direction to each other. Allow sufficient time for **CEWAY-FX®** thoroughly before applying to dry thoroughly before applying the next coat. Always apply **CEWAY-FX®** on the positive side of the structure i.e. on the side where hydrostatic pressure is anticipated.

CURING & TREATMENT

Where rain is expected after the application, the **CEWAY-FX®** membrane must be protected with polyethylene sheet for 12 hours. Avoid applying **CEWAY-FX®** under strong sunlight. Do not apply **CEWAY-FX®** on hot substrates. Soft rubber soles (or barefoot) is recommended for walking on the dried **CEWAY-FX®** surface. After **CEWAY-FX®** has cured thoroughly, a protective screed must be installed quickly to protect the membrane from damage.

COVERAGE / YIELD

For a 2-coat application, the quantity of **CEWAY-FX®** required is 2.0 - 2.5 kg per m².
When properly mixed : Each 36 kg set will yield 21.6 litres; Each 9 kg set will yield 5.4 litres of **CEWAY-FX®** slurry.

PRECAUTIONS

- Each full set of **CEWAY-FX®** must be mixed in the proportions supplied. Mixing in quantities smaller than one set may lead to wrong proportioning and affect the product's performance.
- Dilutions and addition of other materials will also affect the product performance.
- All tools and equipment should be cleaned with water immediately after use. Any hardened material can be scraped off with tools or softened by soaking in thinner.
- Avoid eye and skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case of eye contact, flush with plenty of water. Seek medical help immediately.

PACKAGING & STORAGE

CEWAY-FX® is supplied in sets of:

36 kg set = 20 kg bag Part A (Powder) + 16 litres container Part B (Liquid)
9 kg set = 5 kg bag Part A (Powder) + 4 litres container Part B (Liquid)

CEWAY-FX® has a shelf life of 12 months if stored in a cool and dry place in sealed packing with sheltered protection from rain and sunlight.

TYPICAL PERFORMANCE DATA

(consists of : Part A - Grey Powder / Part B - Milky Viscous Liquid)

Property	Typical Results
Adhesion to concrete (Adopted from ASTM D4541: 2002)	0.75 N/mm ²
Crack Bridging (Adopted from ASTM C836: 2000)	No cracking at 2mm width and after 10 cycles
Initial Hardness after 7 days curing (ASTM D224: 2002)	≥ 70 shore A
Tensile Strength (ASTM D412: 1998a)	≥ 1.5 N/mm ²
Elongation at break (ASTM D412: 1998a)	Min. 250%
Resistance to Water penetration adopted (DIN 1048: Part 5: 1991)	0mm
Chloride Content (ISEA Method)	≤ 0.006%
Pot Life	50 minutes
1st coat Dry Time* 2nd coat Dry Time*	2 hours 4 hours

Customer Service

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Technical Service

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