



E.MIX ES 110

Single component, liquid applied, undertile, flexible waterproofing membrane

E.MIX ES 110 is a ready-to-use, high performance, liquid applied waterproofing membrane. ES 110 is specially formulated with styrene-butadiene co-polymer to provide seamless, durable, and elastomeric waterproofing onto concrete substrates to prevent ingress of water and moisture before application of tiles or other finishes topping.



PRODUCT BENEFITS



USES

E.MIX ES 110 is designed for residential, commercial, and industrial applications. It is suitable for waterproofing of kitchens, toilets, balconies, lift pit, and internal wet areas. E.MIX ES 110 is also used in podium decks, walkways, terraces, and planter boxes.

ADVANTAGES

- Elastomeric & flexible
- Rapid drying
- Tough & durable
- Water-based & non-toxic
- Seamless
- Resistant to fungi & algae growth

TECHNICAL DATA & PHYSICAL PROPERTIES

Colour	Viscous Liquid – Dark Grey
Resistance to Water Penetration (DIN 1048 Pt 5: 1991)(ADM/CE/003: 2010)	0
Adhesion to Substrate (ASTM D4541: 2002)	0.9 N/mm ²
Tensile Strength (ASTM D412: 2016a)	2.58 N/mm ² (Before ageing) 4.80 N/mm ² (After ageing at 50°C, 14 days) 2.44 N/mm ² (After 72 hrs, room temp in 0.5% (v/v) NaOCl) 2.57 N/mm ² (After 72 hrs, room temp in 1.25% (v/v) NH ₄ OH) 2.40 N/mm ² (After 72 hrs, room temp in 3.7% (v/v) HCl)
Elongation at Break (ASTM D412: 2016a)	161 % (Before ageing) 134 % (After ageing at 50°C, 14 days) 214 % (After 72 hrs, room temp in 0.5% (v/v) NaOCl) 233 % (After 72 hrs, room temp in 1.25% (v/v) NH ₄ OH) 234 % (After 72 hrs, room temp in 3.7% (v/v) HCl)
Crack Bridging (ASTM C836/C836M: 2015) (ADM/CE/002: 2017)	No cracking at 2mm width No cracks after 10 cycles of stretching and closing to a width of 1 mm.
Hardness (Shore A) (ASTM D2240: 2015)	47
Set To Touch (ASTM D1640: 2014)	Approx. 55 mins

Specifications are subject to change without notification. Results shown are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance will depend on installation methods and site conditions.



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PROCEDURE & APPLICATION



Surface Preparation

Ensure all surfaces must be sound, clean, and free from loose particles, oil, and other contaminants. Check and remove all protrusions from the surface that may pierce into the E.MIX ES 110 membrane. Remove all flaking paint before applying a new coat of waterproofing coating to enhance the adhesion onto the existing substrate. Small hairline cracks up to 2.0 mm can be bridged by E.MIX ES 110. Brush E.MIX ES 110 into the cracks and allow it to dry until filled.



Application

Stir E.MIX ES 110 well before application. Do not dilute E.MIX ES 110. E.MIX ES 110 can be easily applied using a brush or roller. Ensure that no air is trapped in the membrane during application. Allow the first coat to cure for at least 1 hour before applying the second coat.

E.MIX ES 110 may be protected by laying a screeding material after the second coat has dried to prevent damage to the waterproof membrane. Tiles and other surface toppings can only be applied after E.MIX ES 110 is completely cured.



Water leakage test may commence after 24 hours from the application of the final coat of E.MIX ES 110 from which would have dried after curing in ambient conditions.

PRECAUTION

Do not use in areas subjected to rising dampness, with negative hydrostatic pressure and not dry or when inclement weather is imminent. E.MIX ES 110 is not supposed to be left exposed and is not suitable for regular foot traffic. Do not apply solvent over cured E.MIX ES 110 membrane or when the substrate temperature is below 10°C or above 38°C.

CONSUMPTION

Approx. 25m² for 2 coats application for 24 kg pail. Recommended final WFT (Wet Film Thickness) = Approx. 0.8 mm; Recommended final DFT (Dry Film Thickness) = Approx. 0.6 mm. Coverage may vary depending on surface and site conditions.

CLEANING

All tools and equipment should be flushed thoroughly with clean water immediately after use.

STORAGE & PACKING

E.MIX ES 110 is available in 24 kg pails. Shelf life of 12 months when stored in original factory sealed container. It should be stored at room temperature (min. 10°C, max. 38°C). Keep dry and out of direct sunlight.

HEALTH & SAFETY

In case of contact with eyes or excessive skin contact, flush immediately with plenty of clean water and seek medical assistance. Keep out of reach of children.

*Note: Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. Saint-Gobain (Singapore) Pte Ltd reserves the rights to amend the contents of the data sheet at its sole discretion. (Mar '21)

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