

PRODUCT DATA SHEET

Flex-E-Guard

2 Part Elastomeric, Cement Based Waterproof Coating

Product Description:

Flex-E-Guard is a 2-part elastomeric, cement based waterproof coating for concrete and masonry. Part A is a blend of Portland cements, silica, PET microfibres and performance additives. When mixed to a slurry consistency with Part B, a styrene acrylic polymer emulsion, it can be easily applied to surfaces. It cures to give an elastomeric, flexible membrane.

Characteristics/Advantages:

Flex-E-Guard forms a waterproof membrane that is seamless and hardwearing. It also stops the ingress of waterborne salts and atmospheric gases.

- Retains flexibility when submerged
- Freeze-thaw resistant
- Crack bridging
- UV stable
- Protects concrete surfaces from chloride attack and carbonation.

Typical Uses:

- For waterproofing water-retaining structures which may be subject to movement like water tanks, reservoirs etc. Certified potable water safe (SANS 241: 2015).
- To protect concrete from water, carbonation and de-icing salts.
- Suitable for internal and external use, against positive and negative water pressure.

Product Properties:

Property	Result	Units
Tensile Adhesion Strength (7 Days)	0.85	N/mm ²
Tensile Adhesion Strength (28 Days)	1.04	N/mm ²
Tensile Adhesion Strength (Water Immersion)	0.9	N/mm ²
Water impermeability	Pass	5 bar

Application Procedure:

Surface Preparation:

- Any loose material must be removed first. Ensure there are no oils or other materials that can hinder the bond on the surface. Contaminants could negatively affect the adhesion of **Flex-E-Guard**.

- If a prior coating exists, remove as much as possible, thereafter wire brush or high pressure wash off any remaining loose material.
- All laitance should be removed with high pressure washing. For small areas wire brushing can be used.
- Before applying **Flex-E-Guard**, it is important to repair any spalled surfaces or areas with large blowholes or defects. For surfaces with small blowholes (typically less than 1mm wide), **Flex-E-Guard** can be directly applied without any prior treatment. Cracks that are less than 0.75mm wide can also be coated over, as long as they are not expected to widen beyond 0.75mm. However, cracks wider than 0.75mm should be remediated appropriately before application of **Flex-E-Guard**.
- **Flex-E-Guard** can accommodate crack movement of 0.35mm.
- The better the surface preparation the better the adhesion and surface finish will be.

Mixing:

Flex-E-Guard is supplied in the correct mix ratios. Using a clean mixing bucket add the entire contents of the liquid part B into the bucket then using a slow speed drill or mixer fitted with a suitable mixing blade or paddle add the powder and mix thoroughly. Do not add additional water.

Wet Density:	Approximately 2000 kg/m ³
Pot Life:	> 1 hour
Drying Time:	+/-180 minutes depending on ambient conditions
Mixing Liquid:	5L Part B to 11kg Part A powder
Yield:	Approx. 8 L

NOTE: **Flex-E-Guard** should be power mixed only. Do not use a bricklayer's mortar mixer. For colour uniformity, always mix the same amount of liquid and do not apply product in temperature extremes.

Application:

- Do not apply **Flex-E-Guard** to frozen substrates or if the ambient temperature is below 5°C, expected to fall below 5°C in the next 24 hours or above 35°C.
- Try avoid application in direct sunlight onto very hot surfaces.
- Always apply the product to a pre-dampened surface. High suction substrates require more dampening than dense substrates. However, there must be no standing water on the surface before product application. Mixed material in the bucket can be resealed with the lid to extend open time. Allowing second coat to be applied with 2 hours. Remix with power mixer if stiffened do not add water.

First Coat:

- Brush the product onto a pre-dampened and suitably prepared surface, brushing well into the surface.
- Strike off with a trowel in one direction for a neat appearance. Care must be taken not to spread the product too thinly.
- Typical product coverage should be approximately 0.75L/m² per coat or a coating thickness of 0.75mm.

- For an effective waterproofing coating a range from 0.5L/m² to 1L/m² ie. a 0.5mm - 1mm thick coating.
- If the material begins to 'ball' or drag, do not add more liquid to the mixture, just dampen the surface again.

NOTE: Do not apply product at thicknesses greater than 1mm. If product is applied at a thickness greater than 1mm, it may lead to prolonged drying and curing time periods.

Reinforcing Mesh/ Membrane:

It is recommended that all horizontal and vertical interfaces like showers and walls, water retaining structures and in corners between two walls be reinforced with **SCC Hydro Band** membrane to accommodate any variable movement between the interfaces. Apply 1st coat, soak **SCC Hydro Band Membrane** in **Flex-E-Guard**, stick to surface, coat with more **Flex-E-Guard** while still wet to ensure full saturation and allow to dry before proceeding with subsequent coats. The membrane is recommended to be not less than 200mm wide so the overlap on each side for the respective surfaces should be approximately 100mm.

Second Coat:

- Allow the first coat to achieve a touch dry finish before applying subsequent coats. Low temperatures and high humidity will delay product setting and curing.
- Brush the product onto the previous coat as explained above at right angles to the direction of brush strokes on the previous layer.

Curing:

- Under hot or excessive drying conditions, adequate shielding must be provided.
- In cold or humid areas, it may be necessary to leave the application for a longer curing time period. **Flex-E-Guard** must dry under air-dry circumstances.

Overcoating:

Do not overcoat or overpaint **Flex-E-Guard** in basements or other structures where the membrane would be subject to negative water pressure. Never use solvent-based paints.

Cleaning:

Wet product can be cleaned off equipment with water and soap.

Limitations:

- Do not apply **Flex-E-Guard** if rain is expected within the following 24 hours.
- **Flex-E-Guard** must be protected from rainfall for a minimum of 24 hours after the final coat has been applied to ensure optimal setting and product film characteristics.
- **Flex-E-Guard** is not suitable for application on marbelite or fiberglass surfaces.
- **Flex-E-Guard** is not suitable for use as a final, finishing coating in pools subject to automatic cleaning equipment.
- **Flex-E-Guard** should not be applied over concrete substrates that have been dosed with coarse salts or materials that may cause efflorescence. Please consult our Technical Department for application guidance on suitable accelerated concrete surfaces.

- Allow **Flex-E-Guard** to cure for 7 days before in water retaining structures before rinsing followed by filling with water.
- If used in water retaining structures such as ponds, the alkalinity of the first fill water may be raised. Test the water and treat, if necessary, prior to the addition of fish.
- **Flex-E-Guard** should not be overcoated in areas where ponding of water may occur.

Product Data:

Appearance:	Milky white liquid & Grey powder
Chloride ion diffusivity:	Not measurable after 190 days testing
Shelf Life:	12 months in original unopened bags, when stored in the correct storage conditions
Storage	Store in a cool, dry place

Packaging:

Flex-E-Guard comes in a 16 kg double pack: 11kg part A powder and 5L part B liquid.

Health and Safety Information:



Keep out of reach of children. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/ protective clothing/ eye protection. Wash face, hands and any exposed skin thoroughly after handling. For further health and safety information refer to the product SDS.



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