



EPOXY SELF LEVELLING MEMBRANE

DESCRIPTION.

Kingfisher EPOXY SELF LEVELLING MEMBRANE is an epoxy - reinforced cement based self levelling compound which cures to give an industrial grade tough finish which also performs as a damp proofing membrane. The system consists of 2 products, a primer and an epoxy self levelling finish. The primer is in 2 parts and the finish is in 3 parts. The system is effective to a minimum thickness of 2 mm.

The major advantage of the **Kingfisher EPOXY SELF LEVELLING MEMBRANE** is that the existing concrete does not need to be lifted in order to install a damp proof membrane. The surface is hard wearing, allowing carpets or floor tiles to be laid directly onto it.

TECHNICAL DATA.

- **Colour.** Cures Light Grey.
- **Mixed Density (approx)** 2000kg/m³.
- **Curing Times @**

	10°C	20°C
- Can be walked on after	24 hrs	15 hrs
- Coating can be applied after	3 Days	1 Day
- Light Mechanical loads after	3 Days	2 Days
- Fully cured after.	14 Days	7 Days.
- **Minimum Thickness.** 1.5mm.
- **Maximum Thickness.** 4.5mm
- **Minimum Substrate Temperature.** +8°C.
- **Maximum Substrate Temperature.** +22/mm².
- **Compressive Strength (30days).** 35N/mm².
- **Flexural Strength (30days).** 8N/mm².
- **Shelf Life.** 6 Months - When stored in original containers, in dry conditions between +5°C and + 40°C

PREPARATION

The surface to be treated must be sound, clean and free from oils, grease or contaminants. All loose particles and surface laitance must be removed (surface etching may be required). Dust removal is best achieved by vacuuming, NOT brushing. For large areas, grit blasting, high pressure water blasting or scabbling, is recommended. On small areas, needle gunning or bush hammering can be effective. The strength of the substrate should be at least 20N/mm².

Substrates should be dry or if damp there should be no visible or standing water.

APPLICATION

Primer.

Shake the Epoxy Primer, Part A, briefly. Pour into Part B and mix thoroughly for at least 1 minute.

Apply the primer, by brush or roller onto the prepared surface. **Avoid puddling.**

Apply evenly but sparingly, to achieve coverage of 6 – 8 sq. metres per litre.

Allow to cure for at least 12 hours, but not more than 36 hours.

Epoxy Self Levelling Finish Coat.

Shake the Self Levelling Finish, Part A briefly and pour into the Self Levelling Fish Part B. Mix thoroughly for 1 minute.

Pour the binder mixture into a suitable clean container (Capacity 30 litres), then slowly add the Self Levelling Membrane powder component whilst continuously mixing with a power driven paddle. Mix for at least 3 minutes.

Note: The consistency needs to be adjusted by adding a small amount of clean water, (up to 3 litres.) to give satisfactory levelling properties.

The addition of water does not affect the cured properties of the membrane.

Application :

Apply the finish using a steel trowel or spreader(rubber or metal) to obtain an even coverage.

Immediately work with a spiked roller to ensure a uniform thickness, trowel mark free surface and to remove entrapped air.

For a non-slip surface, the freshly placed finish should be thoroughly blinded with a dry quartz sand (graded 0.4 - 0.7mm). Leave to cure.

LIMITATIONS to USE.

- a) All previous coatings or contamination must be removed at the preparation stage.
- b) During application. Maximum temperature of substrate:- +22°C
Minimum temperature of substrate: - +8°C.
- c) Maximum thickness of finish: - 4.0mm.
Minimum thickness of finish: - 1.5mm.
- d) **Kingfisher EPOXY SELF LEVELLING MEMBRANE** should not be used to bridge “live” cracks joints etc.
- e) All active water seepage must be stopped.

PACKAGING

Epoxy Primer is supplied in a 2 part “Nested ” pack: 1 x 1 litre container marked Epoxy Primer “Part A” and 1 x 3 litre plastic xxxxx marked Epoxy Primer “Part B”. These combine to make a 4 litre unit.

Epoxy Self Levelling Membrane is supplied in a 3 part pack: 1 x 1 litre plastic container marked Epoxy Self

Level “Part A”. 1 x 5 litre plastic container marked Epoxy Self Level “Part B” and finally 1 x 25 Kg bag of Epoxy Self Levelling Powder. These combine to make 30 Kg. of product.

COVERAGE. (When mixed as advised)

Epoxy Primer - 6 – 8sq. metres per litre

Epoxy Self Levelling Finish. - 7.5 sq. metres per pack. (2mm thickness).

HANDLING PRECAUTIONS.

Epoxy resins and hardeners are generally harmless provided that certain precautions are taken. E.g.

- The materials must not be allowed to come into contact with food stuffs or food utensils.
- Appropriate measures should be taken to ensure that uncured materials do not contact the skin. as people with sensitive skin may suffer a reaction
- Use of appropriate protective clothing is always recommended.
- The powder component of this product should be treated as cement, therefore adequate ventilation of the mixing area is recommended.
- Always store in the original sealed containers out of reach of children.

Further Health and Safety information on this product is provided in the MSDS, copies of which are available from the Kingfisher Technical Dept Tel. 01229 869100 or Fax 01229 869101.