



Kemfloor

Chemical And Abrasion Resistant Solvent – Free Epoxy Floor Coating

Description

Kemfloor is solvent free, high build epoxy coating, Colored two - pack epoxy flooring. **Kemfloor** is ideal for all heavily trafficked areas. Durable, and chemical resistant, it will protect and brighten concrete and make cleaning much easier. It is available in two grades.

Where to use

Kemfloor is a hard wearing ,easily cleaned, attractive Colored floor coating (non- slip if required) with abrasion resistance & high chemical resistance finish used for :

- Industrial flooring subjected to normal or moderately heavy loading.
- Food industries.
- Pharmaceutical industries & textile plants.
- Power stations
- Basements.

Advantages

Kemfloor provides the following advantages :

- Solvent free , seamless
- Non slip for safety of personnel
- Easy to apply pre - weighed packing
- Easy to clean.
- Good adhesion to substrate.
- High chemical resistance.
- Durability and hard wearing.
- Available in wide range of colors.
- Resistant to fire & smoke spread (Special version).

Properties

Density	1.6 ± 0.06 g/cm ³
Solid content by volume	100%.
Pot life at 23°C	40 minutes
Fully cured	7 days.
Adhesion to concrete	1.8 N/mm ²
Tensile strength	25 - 30 N/mm ²
Compressive strength	60-85 N/mm ²
Flexural strength	30 - 33N/mm ²
Water absorption	0.128%
Impact resistance	40 kg height 2m (no failure)
Shore Hardness	83
Abrasion resistance	63.3 mg
Water vapor transmission	1.23x10 ⁻³ g/h.m ²
Modulus of elasticity in tensile	334.3 N/mm ²
Modulus of elasticity in flexure	268.9 N/mm ²

It complies with

- ISO10545-2,10545-3,10545-4, 10545- 13, 105 45-14, 4624, ASTM D3960, D2240, D4060, D638, D790 , C413, E96
- LEED NC-2016, IEQC 4.3, LEM

How to use

Surface preparation:

- **New poured concrete**
- Concrete compressive strength > 25 N/mm² (28 Days) & Bond tensile strength >1.5 N/mm²
- Allow to fully cure 28 days prior to application. Remove any curing membrane by sanding or etching with a strong detergent.
- **Old concrete**
- For wet concrete apply(**Wetseal**) as a priming coat.
- Moisture content must be less than 5%. Thoroughly clean surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shot blasting, sanding, or grinding. Proceed as for new poured concrete.

Previously coated concrete

Remove any peeling or degraded paint by sanding or using a paint stripper. For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. Treat any areas worn down to the original concrete as bare concrete.

All damaged areas, cracks and surface irregularities must be repaired and smoothened first by using **Kemrepair EP** and bonding layer using **Kembond EP**.

steel surface

The steel surface should be blasted to Sa 2 ½ surface quality to remove rust and mill scale.

Expansion Joints:

Shall be installed in accordance with local building codes. Never bridge an expansion, contraction, or construction joint.

Mixing:

- It is important to remember that this coating has a limited pot life (40 minutes). Therefore it is wise to check and make sure everything is in order before starting the mixing sequence.

Product Data Sheet
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Prokem
SPECIALITY CHEMICALS

- Stir the contents of pack A to disperse settlement, then add pack B and mix with a very low speed mixer, until completely blended. This will take about 2 to 3 minutes. Be careful not to introduce any air bubbles while mixing until a uniform consistency is obtained.

- **Kemfloor** should be used immediately after mixing.

Application:

- Application at temp. +10°C / +30°C & R.H 85%.
- **Kemfloor** can be applied by brush, roller or airless spraying gun to get a uniform spread.
- Being solvent free, there is no limit to film thickness.
- Anti-slip finish may be achieved by broadcasting as specially graded silica sand in excess.
- For the application on green and damp concrete, the substrate must be primed by using **Wetseal**.

Theoretical Coverage :

Concrete substrate

1st step

Sealer E43*: 0.1 – 0.2 kg /m²

*In case of wet or green concrete substrates **Wetseal** can be used

2nd step

2 coats of **Kemfloor**: 0.5 - 0.6 Kg/m² @

0.3-0.4 mm D.F.T

Filler : 1- 2 Kg /m² (agg . no .1001)- Multi Layer System (Anti Slip finish)

Steel Substrate

1st step

Kemprim M: 0.2 – 0.3 kg/m²

2nd step

2 coats of **Kemfloor**: 0.5 – 0.6 kg/m² (Final),
300-400 Micron D.F.T

Cleaning :

Clean all tools and equipment immediately after use with **PROKEM** special solvent.

Packaging:

Part (A+B) 20, 5 kg pails.

Shelf life & Storage :

Kemfloor has a self life for 12 months if kept in original and undamaged packing in a dry condition.

Health and Safety

This product is of low toxicity but normal precautions should be observed. Wear gloves, and if working overhead or spraying, wear goggles. Wash off any skin splashes with soap and water. Irrigating the eye with an eye bathing solution should treat eye contamination. Ensure adequate ventilation in confined spaces and use breathing aids. If ingested, drink milk or water and seek medical attention.

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure.

PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, **PROKEM** reserves the right to change the properties of its products.

All orders are accepted subject to our current term of sale & delivery.

Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.

