

# KEM PROOF 87

## Elastomeric Waterproof Roof Coating

### Description

KEM PROOF 87 is an elastomeric coating based on selected acrylic co-polymers. When applied, it cures to form a durable, protective, waterproof membrane. It is applied by brush or roller. It can be applied on concrete, cement board, wood, brick, stone, and tiles. It is a single-component emulsion containing inert pigments and has a brushable consistency.

### Usages

- Used for coating roofs, it protects concrete structures against carbonation and chloride ingress.
- Typical surfaces include concrete, cement good, woods, bricks, tiles.
- It can also be used in damp and sunken areas such as under terrazzo or tile floors, shower pans, kitchen, laundry, and bathroom floors.

### Advantages

- ✓ Good resistance to UV and atmospheric gases and salts ensures excellent durability
- ✓ Good tensile strength and elongation ensures crack bridging and movement accommodation
- ✓ Highly resistant to water

### Typical Properties

**Physical Appearance:** White coloured thick emulsion

**Specific Gravity %:** 1.29

**% Solid Content:** 55

**Hardness (Shore A):** 70 – 80

**% Elongation at Break:** 120 – 150

**Tensile Strength N/mm<sup>2</sup>:** 2.2 – 2.7

**Adhesion Strength N/mm<sup>2</sup>:** 0.7 – 0.9

**Crack Bridging:** No crack up to 2-2.5 mm width

**Brushability:** Easily brushable

**Water Permeability - Depth of Water**

**Penetration:** 5 - 7

**Rapid Chloride Penetration Test -**

**Chloride Ion Penetration:** Very low

**Accelerated Weathering**

**(1500 hrs UV Exposures):** No cracks

### Standards

KEM PROOF 87 complies ASTM D 2240:2002, ASTM E 96:2000, ASTM D 412-02, ASTM C 1202-97, ASTM C 836:1995, BS EN 12390 Part 8:2000

### Directions for use

#### Surface Preparation

All new cement-sand plasters / concrete surfaces should be allowed to cure for 6-8 weeks before surface coating. Clean the surface thoroughly. Remove all laitance, loose material, oil, grease, etc. by mechanical means such as by wire brushing and light grit blasting. Vacuum cleaning may be necessary in some cases. Any visible surface cracks up to 5mm wide should be filled using KEM CRACKFILL 51. Cracks more than 5 mm wide and separation gaps should be filled using KEM BOND 50, KEM BOND 76 or as specified.

#### Priming

Prime the surface with one coat of KEM PRIME 89 or KEM PROOF 87 diluted with potable water by volume in 2:1 ratio (2 parts KEM PROOF 87- and 1-part water) and allow it to dry for 2 - 3 hours.

#### Application

Use KEM PROOF 87 directly from the container. Stir contents well before use. Apply up to 4 coats. Each coat can be applied at 300 - 400 microns WFT. The total thickness shall be around 1.5mm (1500 microns). The application rate is typically 0.55 - 0.9 kg/m<sup>2</sup> per coat.

#### Curing

The coated surface should be air cured for minimum 7 days.

#### Drying Time

Temp.	Dry to Touch	Hard Dry
25°C	7.5 hrs.	24 hrs.
35°C	6.5 hrs.	20 hrs.
45°C	6 hrs.	18 hrs.

Allow 24 hours between coats. A final curing time of 48 hours is adequate at normal working temperatures. Low temperatures and high atmospheric humidity will slow down the curing rate and vice versa.

### Coverage

2 – 2.5 m<sup>2</sup> /litre

Note: coverage may vary depending upon the texture, porosity, and condition of the surface.

### Packaging

5/ ; 20/

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### Precautions

- Do not dilute KEM PROOF 87. Do not apply when ambient temperature is below 10°C or above 45°C.
- Do not apply in windy and dusty conditions.
- Do not apply in direct sunlight or during rains. Adhesion property may get affected over poor-quality putty and very smooth surfaces.

### Storage and shelf life

Store in accordance with national regulations. The product should be kept in a cool and well-ventilated place, protected from heat and direct sunlight. Containers must be tightly closed. Stir the contents before use.

12 months from the date of manufacture when stored in original unopened bags, kept in dry conditions

### Technical Service

Chembond has established itself in various fields based on its dependable technical service. For this purpose, we maintain a well-equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

### Disclaimer

The information, based on our current level of knowledge, is given in good faith. It relates to the usage of CHEMBOND products when properly stored, handled, and applied. Users are advised to carry out trials prior to full scale usage. No assumptions should be made as to a product's suitability for a particular use or application. Users acknowledge this and agree to accept CHEMBOND's technical advice only as a guideline.

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