

Product Data Sheet  
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Identification No. RC - 10



## KEMCRETE GUNITE 101

Gunite Mortar

### Description

**KEMCRETE GUNITE 101** is polymer modified, silica-fume contained normal OPC cement base ready to use shotcrete mortar complying with the ACI 506.2-95, DIN – 18551 and the AASHTO-AGC-ARTB a task force 37 report.

### Where to use

**KEMCRETE GUNITE 101** is typically designed for use with dry mix process in the following applications:

- Concrete repair & leveling works.
- Tunnels & bridges.
- Water retaining structures.
- Power stations.

### Advantages

- Ready to use.
- Excellent adhesion to concrete.
- Little rebound.
- Easily trowelled.
- Excellent resistance to carbonation, chlorides & sulphates.
- Resistance against rebar corrosion.

### Properties

Physical Properties:

Form	Powder
Colour	Grey
Specific Gravity	2.2 ± 0.1
Compressive strength	45 - 50 N/mm <sup>2</sup> (after 28 days).
Flexural strength	8-9 N/mm <sup>2</sup>
Bond strength to concrete	2 – 3 N/mm <sup>2</sup>
Modulus of elasticity	24 – 30 × 10 <sup>9</sup> N/mm <sup>2</sup>
Coefficient of thermal expansion	8 × 10 <sup>-6</sup> / °C.

### How to use

#### Surface preparation:

- Concrete, stone, bricks and mortars must be clean and free of loose materials, oil, grease and other contaminants.
- Metal surfaces must be free of rust, oil and grease.
- All concrete surfaces must be wetted prior to application.

• You can apply coat of Kemlatex and Kembond mixed with cement for better adhesion on concrete surface

#### Application:

- The material is applied in powder form using a dry-spray gunite.
- When the substrate is well prepared and wetted. Tip the dry gunite mortar into the hopper and the required liquid is added at the nozzle.
- As soon as the final coat is sprayed, trowel the mortar.
- The fresh mortar should be kept damp.
- Do not use fresh rebound scrap.

#### Limitations:

- Min. application temperature : + 5° C.
- Application thickness : 10 – 50 mm/coat.
- W/C : ≤ 0.4 Water / 25kg sack=2.5-2.6 lit

#### Cleaning:

All tools & equipment must be cleaned thoroughly with water.

#### Theoretical Coverage rates:

24 kgm/m<sup>2</sup>/ 1 cm thickness [varies according to surface texture, location of sprayed area (overhead or vertical) and the thickness].

#### Packaging:

30 kg. Sacks

#### Storage:

12 months if stored in its original packs at suitable conditions.

### Health and safety

- Use gloves to avoid contact with skin.
- If skin comes in contact, wash immediately with soap and water.
- Do not use solvents.
- Eye contamination must be immediately washed with water, then seek medical treatment.
- Working areas should be well ventilated.

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