

### Urethane Based, Self-Leveling, High Strength, 3K Elastomeric Concrete for Patching.

#### Description

**MekCrete-3K** is a 3K Urethane based Patching material. It is applicable for Airport Runways, Highways, Potholes, Bridge Decks and Parking Decks. It durable and Cost effective. It has an excellent adhesion to concrete. It provides excellent resistance to moisture and abrasion along with very good resistance to solvent, chemicals. This product minimizes expensive downtime and allows for the return of traffic often within 90-120 minutes of final pour.

#### Advantages

- ❖ High-Load Bearing Capacity
- ❖ **MekCrete-3K** is a long-term solution for high-performance pavement repairs.
- ❖ Excellent Adhesion to Concrete and Steel
- ❖ High Impact Resistant
- ❖ High Compressive Strength
- ❖ Chemical Resistant – **MekCrete-3K** resists commonly used chemicals such as Oil, Fuel, Jet Fuel, Silicone Grease, Sodium Chloride, Mineral Oil.
- ❖ Easy to install **MekCrete-3K** is self-leveling and has a rapid cure time.

#### Use

It is applicable for: -

- ❖ Airport Runways, Highways, Potholes, Bridge decks and Parking decks.
- ❖ It durable and Cost effective.
- ❖ Commercial Structures

#### Installation Procedure

#### Preparation and Application of Elastomeric Concrete.

#### Surface Preparation

- ❖ Repair area must be clean and dry.
- ❖ Minimum application depth is 50 mm.
- ❖ Blow area with high pressure air which is free of oil and moisture

#### Priming

- ❖ Primer is applied with either a hand pump sprayer or a pump-up spray tank.
- ❖ The primer may also be applied by brushing.
- ❖ Use clean brushes at all times.
- ❖ Fresh primer must always be used.
- ❖ Avoid making puddles as this increase drying time.
- ❖ Primer must dry out at least 30-45 minutes

#### Mixing

Mix Part A, Part B for approximately 15 seconds and Add pre weighed Part C and continue to mix for approximately 30 seconds. When properly mixed, the elastomeric concrete is grey/white/red and black in color.

**Pouring** - The elastomeric concrete must be poured into the repair area in a manner that reduces the potential for delamination. Fill entire area to grade as you go rather than emptying the mix over the entire length of the repair area. Start at the low end of the repair area. The elastomeric concrete is self-leveling. As it cures, use a trowel to achieve a grooved or textured finish. For repairs along existing joints, the joints should be maintained by the use of forming materials or saw cutting method. Masking tape should be removed immediately after troweling. Large patches requiring multiple mixes may require special procedures.

**Accepting Traffic** – Allow the material to cure two hours, before opening to traffic.

#### Mixing Equipment

- ❖ Use heavy duty, slow speed, high torque mixing machine.
- ❖ Measuring beakers
- ❖ Notched trowels for finishing and scrapers for mixing bowls or pails.
- ❖ Personal protective equipment (safety glasses, gloves, safety vests, etc.
- ❖ Spray bottle/Equipment for applying primer.

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### CEMEK (I) PRIVATE LIMITED

(An ISO 9001:2015 Certified Company)

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*"Comprehensive Solution for Constructions"*

**Properties**

S. No.	Properties	Requirements
1.	Mixing Ratio	2.5:1:6.5 (A: B:C)
2.	Specific Gravity	1.65±0.03
3.	Color	Grey/Red/Black
4.	Compressive Strength (MPa) ASTM D695	45 ±5 MPa
5.	Impact Resistance ASTM D3029	No cracking
6.	Adhesion to Concrete Dry Bond Wet Bond	2.5 MPa Min 1.55 MPa Min
7.	Hardness Shore D (ASTM D2240)	50 Minimum
8.	Tensile Strength (MPa) ASTM D412	4-5 MPa
9.	Elongation at break % ASTM D 412	25 Minimum

**Limitations**

Elastomeric Concrete must not be installed when air and concrete temperatures below 5°C and it should not be poured in the rainy session also.

**Cleaning**

Use **CEMEK-A40P** as an Equipment cleaning agent.

**Storage**

Store in a dry area at temperatures 7°C - 45°C in the original unopened containers. DO Not Freeze.

**Safety Precaution**

Uncured adhesive causes skin and eyes irritation upon contact.  
Avoid contact with eyes, skin and mouth.  
In case of contact with eyes, flush with water immediately for 15 minutes. If irritation persists, seek medical attention.

Note: - Keep Out of Reach of Children for Professional and Industrial Use Only

**Packing**

**MekCrete-3K** is available in 10 Kg Pack.

Pack A – 2.5 Kg  
Pack B – 1.0 Kg  
Pack C – 6.5 Kg

**Coverage**

Formula: 600/W\*D  
W= Width of Patch, D = Depth of Patch (mm)

**Handling Precautions**

During handling maximum precaution should be taken. Keep the container tightly sealed when not in use. Avoid eye contact & protective gloves should be worn during handling. If it comes in contact with the body; wash the affected organ with plenty of clean water.

**Warranty**

Our products are manufactured under stringent National / International quality norms and guaranteed against any manufacturing defect. Recommendation as per this data sheet are based on our team’s combined practical experience and exposure over several years in the field of construction and are believed to be most appropriate. However, no liability can be accepted by us, as the conditions of use of such products are beyond our control.

**Disclaimer**

The above data is based on our industry knowledge and does not constitute a guarantee for any specific product. A legally valid contractual relationship, can therefore, not be established.

**FIRST AID!**

- ❖ Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists.
- ❖ Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Inhalation: Remove subject to fresh air. Swallowing: Dilute by giving water to drink and contact a physician promptly.
- ❖ Never give anything to drink to an unconscious person.

**Note:** - keep out of reach of children for professional and industrial use only

## Technical Support

Our technical support team assist you in application of right products at right place, our team will also assist in: -Support on location, Test work and On-site training

## Products Range of CEMEK

- ❖ Alkali Free Accelerator for wet Shotcrete in Liquid form
- ❖ Alkali Free Accelerator for Dry Shotcrete in powder form.
- ❖ Modified Sodium Silicate based accelerator for Shotcrete.
- ❖ Integral Water Proofing Compound.
- ❖ Crystalline Water Proofing Compound.
- ❖ Heat Resistance Coatings/Paints
- ❖ Cement, Micro Fine Cement, Epoxy, PU and Colloidal Silica based grouts.
- ❖ Wax Based, Resin Based and Resin Based Aluminized, Acrylic Based, Concrete Curing Compound
- ❖ Ready to use High Strength, Rapid Set, Non-Shrink, Self-Levelling, Crack Repair, Heavy Duty Machine Installation product.

## Services

- ❖ Water Proofing (Epoxy 1K, 2K and 3 K, PU, Acrylic, SBR etc.)
- ❖ Dry & Wet Shotcrete
- ❖ Crack Repairing, Patching, Resurfacing (Bitumen Based Road)
- ❖ PU, Epoxy, (Tunneling, Mining & Structures)

## House, Industrial & Institutional Cleaners

- ❖ Steelness Steel Cleaner
- ❖ Degrease & Oil Removers
- ❖ Paint & Coating Striping Agents
- ❖ Concrete Removing Agents
- ❖ Tar Removing form car body
- ❖ Rust Removing Agent
- ❖ Rust Converter