

# SIPOXY MORTAR 680

High Performance Solvent  
Free Epoxy Mortar

2 Pack System Product No. 6680

3 Pack System Product No. 6681

## Features

- Long lasting, hard & tough epoxy mortar, which minimises maintenance disruption and gives maximum adhesion to concrete.
- Chemical Resistance: High chemical resistance, unaffected by a wide range of acids, alkalies and industrial chemicals.
- Strength: 4 to 5 times stronger than typical concrete, excellent abrasion and impact resistance.
- Water Proof: Will cure under damp conditions.

## Recommended Use

- For all repair works to concrete and cementitious substrate where strength, resistance to aggressive chemicals and impermeability to water is required. Chemicals include: most acidic and alkaline solutions up to 30% concentration, fuel and gasoline, hydraulic fluids, salads and vegetable oils, sea and pure water, detergents and selected solvents. For other or specific chemicals consult SIPCO Technical Services.
- Emergency repair to asphalt or concrete structure and repair of damaged floor, walls etc.

## Physical Data

|               |   |      |
|---------------|---|------|
| Finish        | : | Matt |
| Colour        | : | Grey |
| Volume Solids | : | 100% |

### Recommended Film Thickness:

Depending on repair area, the material can be applied from a thin skim coat up to 10 mm.

### Theoretical Coverage:

**Three Pack System:** Typically 0.5 m<sup>2</sup>/kg at 1 mm DFT. Can be applied up to 10 mm thickness.

**Two Pack System:** Up to 10 m<sup>2</sup>/ltr at 100 Microns DFT.

**Density (Mixed)** : 2.10 kg/ltr.

### Drying Times :

At 25°C and 65 % RH

|            |   |           |
|------------|---|-----------|
| Tack Free  | : | 04 Hours  |
| Recoatable | : | Overnight |

**Heat Resistant** : Up to 150°C

|                      |   |                      |
|----------------------|---|----------------------|
| Compressive Strength | : | 80 N/mm <sup>2</sup> |
| Flexural Strength    | : | 28 N/mm <sup>2</sup> |
| Tensile Strength     | : | 12 N/mm <sup>2</sup> |

## Specification Data

### Preparation

Dust, loose concrete, chemical contamination and laitence must be removed by using light bush hammering or mechanical grinding to provide sound substrate

Creating a surface profile (roughness) is desirable for good adhesion

## Application Data

| <b>Mixing Ratio by Weight</b> | <b>Three Pack (6681)</b> | <b>Two Pack (6680)</b> |
|-------------------------------|--------------------------|------------------------|
|                               | Base : 25                | Base : 50              |
|                               | Hardener : 25            | Hardener : 50          |
|                               | Aggregates : 50          |                        |

**Mixing Advice** Ensure components are prepared according to required mixing ratios. Stir the base and hardener well before mixing. Add hardener to base and mix slowly but thoroughly for 2-3 minutes. For the three-pack system and after dry blending for 2-3 minutes add the aggregates and stir using forced action mixers until you get a uniform mixture.

**Thinning** Do not thin, supplied ready for use.

**Induction Time** None

**Pot Life** 45 minutes at 20°C for 3 pack system, 30 minutes at 40°C for 2 pack system.

**Application Details** Damp the substrate slightly. Apply by stainless steel trowel. For the three-pack, ensure good compacting by tapping with suitable tool. For details of application equipment and technique contact SICO's Technical Services Department.

**Caution** Do not use during rainy conditions or if temperatures are likely to fall below 5°C during application and drying.

**Cleaning** Clean all tools with Thinner 730.

## Storage Information

|                   |   |
|-------------------|---|
| <b>Pack Size</b>  | 8 Kg three component kits (6681) / 4 liter two component kit (6680)   |
| <b>Storage</b>    | Store generally in original sealed container, indoors, at a temperature between 5 and 40°C and relative humidity below 70%. |
| <b>Shelf Life</b> | 1 Year  |

## Safety Information

See the material safety data sheet and product label for complete safety and precaution requirements.

## Disclaimer

The information in this data sheet represent test results or experience under well defined conditions. Its accuracy or suitability under the actual conditions of any intended use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate and application, manufacturer and seller can not accept any liability in connection with the use of the product relative to coverage, performance, injury or damage, unless we specifically agree in writing to do so. The information in this data sheet is subject to change without notice and it is the user's responsibility to ensure it is current. For further information and advice contact SICO Technical Services Department on Tel. (03) 847 2299, Fax (03) 847 3780.