

# CIKOMould SIL

Smart Chemical Solutions



## Liquid applied silicone rubber for mould making

### Description

CIKOMould SIL is silicone based mould making material that can be used for making replicas with a wide variety of materials including epoxy resins, polyester resins, GRC, gypsum, wax etc. The cured material is elastomeric with sufficient hardness.

CIKOMould SIL is silicone resin cured with hardener to form a tough rubbery material after curing. CIKOMould SIL is available in three variants as 'soft', 'medium' and 'hard' grades represented as CIKOMould SIL-S, CIKOMould SIL-M and CIKOMould SIL-H respectively.

### Properties

- Cold applied two component system.
- Can be used as pouring grade or brushing grade.
- Exhibits very little shrinkage and superior dimensional stability.
- Uniform curing irrespective of thickness.
- Non-exothermic, maintaining the original properties of master.
- Exhibits good resilience and easy demould.
- Good duplication time.
- Provides smooth surface.

### Application area

CIKOMould SIL is a high quality mould material suitable for,

- Glass reinforced concrete industries
- Concrete pre-cast claddings
- Gypsum and plaster decoration elements.
- Wax ornamental members
- Special architectural works

### Application instructions

#### Surface preparation

Clean the master mould to make it free from all loose particles, dust and other contaminations.

The mould must be free from dampness and standing water.

### Application of primer

Apply CIKOMould primer on the master mould using soft brush and allow the primer to dry.

### Mixing

The base component [Part-A] of CIKOMould SIL should be mixed thoroughly using a heavy duty slow speed drill fitted with paddle and ensure a homogenous mix. Over mixing shall be avoided to minimise air entrainment. The hardener component [Part-B] should be poured into the base component [Part-A] and mixed well until a homogenous mix is obtained.

Mix ratio of base to hardener is 100:3 to achieve optimum performance results.

### Application method

Properly mixed material can be directly poured in to the primed mould and levelled to the top surface.

### Packaging

CIKOMould SIL is available in 21.0 kg kits.

### Shelf life

CIKOMould SIL has a shelf life of 12 months in unopened pails and if stored in accordance with CIKO instructions.

### Storage

CIKOMould SIL should be stored under enclosed shaded area at temperatures between 10 – 30°C.

### Precautions

- Do not use over damp surface or standing water.

### Health & safety

CIKOMould SIL should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

## Physical Properties & Other Information

Description	CIKOMould SIL-S	CIKOMould SIL-M	CIKOMould SIL-H
Colour	White	White	White
Specific gravity @25°C	1.06±0.02	1.08±0.02	1.11±0.02
Mixing ratio	100:3	100:3	100:3
Pot life @25°C; mins	30 - 40	30 - 40	30 - 40
Curing time @25°C; hrs	4 - 5	4 - 5	4 - 5
Hardness; Shore A	20±2	30±2	40±2
Tensile strength; MPa	3.0±0.3	3.8±0.5	3.5±0.5
Tear strength; kN/m	19±2	26±2	17±2
Shrinkage rate %	≤0.3%	≤0.3%	≤0.3%
Elongation %	400%	400%	150%

### **Technical Support**

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

### **More from CIKO Middle East**

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control

