

**SOLVA  
STRONG**<sup>®</sup>  
RANGE OF  
CONSTRUCTION CHEMICALS



## **EPOXY PRIMER MI** (MOISTURE INSENSITIVE) WATER BASED EPOXY RESIN PRIMER

### About Product

**Epoxy Primer MI** is a 2-part epoxy primer. It is an environmentally friendly specially designed product that can be used on wet/moist/ & green concrete surfaces. The primer can be over-coated with either PU for repair or waterproofing treatments if needed to be carried out on wet surfaces.

#### Uses:

Epoxy Primer MI may only be used by experienced professionals. A primer and adhesion promoter on the following substrates:

- 1: New and old concrete
- 2: Cementitious screeds
- 3: Industrial floors, shopping malls, theatres, residents Etc.
- 4: Epoxy mortars, and for the repair of concrete substrates.
- 5: Self-leveling or repairing horizontal concrete surfaces in new or maintenance work.
- 6: For absorbent substrates ranging from average to strong.

#### Advantages:

- 1: Easy and fast application
- 2: Especially suitable for highly absorbent substrates
- 3: Odourless
- 4: Very good bond strength over a wide temperature range.
- 5: Environmentally friendly.
- 6: Low viscosity.
- 7: Excellent binding strength across the whole temperature range of its use.
- 8: Can be used for both primer and screed. (Saves inventory cost)
- 9: longer pot life and quicker curing.
- 10: Useful or self-levelling floors.
- 11: Can be used for the repair of concrete.
- 12: High penetration.
- 13: High bond strength.

#### Product Information:

<b>Chemical Base</b>	Water based epoxy
<b>Packaging</b>	Part A 10Kg Part B 10Kg Part A+B 20kg ready to mix units
<b>Appearance/Colour</b>	Part A White liquid Part B Blackish Grey Mixed colour Blackish Grey
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C. Always refer to packaging.
<b>Density</b>	Part A ~1,10 kg/l (at +28 °C) Part B ~1,04 kg/l (at +28 °C) Mixed resin ~1,05 kg/l (at +28 °C)

#### Technical Information

**Tensile Adhesion Strength** > 1,5 N/mm<sup>2</sup>

### Application

<b>Mixing Ratio</b>	Part A : Part B = 1:1 (by weight)
<b>Ambient Air Temp</b>	+10 °C min. / +35 °C max.
<b>Consumption</b>	1-2 coats × 0.20-0.4 kg/m <sup>2</sup> (dependent on substrate porosity). This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variation in level or wastage, etc.
<b>Layer Thickness</b>	Dry film thickness ~25 µm per coat
<b>Relative Air Humidity</b>	85 % max.
<b>Dew Point</b>	Beware of condensation. The substrate and uncured floor must be



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at least 3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product.

**Substrate Temp.** +10 °C min. / +35 °C max.

**Substrate Moisture Content:**

Can be applied on damp concrete when overcoating with the Epoxy Primer MI.

Pot Life	Temperature	Time
	+10 °C	~120 minutes
	+20 °C	~90 minutes
	+30 °C	~45 minutes

Curing Time	Substrate temp.	Foot traffic
	+10 °C	~12 hours
	+20 °C	~8-10 hours
	+30 °C	~6-7 hours

No specific additional curing measures are required.

All times are approximate and will be affected by changing ambient and substrate conditions.

**Waiting Time / Overcoating**

Substrate temp.	Minimum	Maximum
+10 °C	12 hours	24 hours

### Application Instructions

#### Substrate Quality/Pre-treatment

The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm<sup>2</sup>) with a minimum tensile adhesion strength of 1,5 N/mm<sup>2</sup>. The substrate can be damp but must be free of standing water (no puddles) and be free of all contaminants such as dirt, oil, grease, coatings and surface treatments etc.

Concrete substrates must be prepared mechanically using abrasive blast cleaning, scarifying or grinding equipment to remove cement laitance and achieve an open textured surface to suit the requirements of the next layer(s).

Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

#### Mixing

Prior to mixing, thoroughly stir part A (resin) mechanically. When all of part B (hardener) has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.

To ensure thorough mixing, after mixing for 3 minutes, pour mixed material into another container carefully scraping residue material from the sides with a spatula then mix again to ensure complete and thorough mixing.

Excessive mixing must be avoided to minimise air entrainment.

#### Mixing Tools

Epoxy Primer MI must be thoroughly mixed using low speed electrical equipment (300–400 rpm).

#### Application

Apply **Epoxy Primer MI** by suitable brush, roller or squeegee and then back roller in two directions at right angles to each other. Caution: The end of the product's pot life is not visibly noticeable. Use within the specified times. Discard material not used within these times.

#### Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be removed mechanically.

#### Limitations

- At low temperatures and/or high humidity, the curing time will increase.
- Protect product from rain/water while reaction and curing take place.
- Monitor pot life as described in the application.

#### Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

#### Local Restrictions

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

#### Ecology, Health and Safety

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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