

# MC-Solid 1200

(formerly Known as MC-Dur 1200)

Two component, Solvent free, Pigmented, Universal Epoxy Bonding Agent.

## PRODUCT PROPERTIES:

- Solvent Free Pigmented two component epoxy based bonding agent.
- Very High Mechanical resistance.
- Very High Chemical Resistance.
- Very High Bond Strength.

## AREAS OF APPLICATION:

- High Build adhesive Coating for mineral basis substrates subjected to Heavy Mechanical and chemical loading.
- As an universal Bonding agent for Concrete both Old and New.
- Can be used during structural repair as a bonding agent.

## APPLICATION NOTES:

- **General:** **MC-Solid 1200** is two component solvent free universal bonding agent, when used as a bonding coat, work should be done wet in wet. When further coats are required, sand should be strewed on the wet surface to produce mechanical keying for next coat
- **Advantages:** The surface coated with **MC-Solid 1200** gives the property of dust proofing and is easy to clean. It possesses a high resistance to variety of chemicals and solvents and can be effectively used as mechanical and abrasion resistant coating.
- **Instruction for use:** The substrate must be clean and free from all loose particles, dust, cement, laitance, oil and other contaminants. The minimum concrete compressive strength necessary should be > 25 N/mm<sup>2</sup>. A substrate pull-off strength of ≥ 1.5 N/mm<sup>2</sup> is required.
- **Mixing:** **MC-Solid 1200** is supplied in two packs – Resin and Hardener – Ready to use for easy on-site mixing. Empty the base and hardener completely by scraping sides of the can into a container and thoroughly mix for 2 to 3 minutes using a slow speed electric drill with a paddle attachment to obtain a homogeneous consistency. To complete the mixing the mixture is poured from one can to another and mixed again to ensure homogeneity. Mixing ration of resin and Hardener is 2 : 1 p.b.w to ensure the Correct mixing ratio and for ecological reason packs should be emptied thoroughly.
- The adhesive is applied to the prepared surface of segments faces by means of suitable Brushes, spreaders, or spatulas. Application of the New Concrete or Cement Mortar Plaster should be done with the open time and pot life of the adhesive.
- Coverage rates of **MC-Solid 1200** are dependent on texture, temperature and porosity of the substrates as well as product storage and application temperatures. Higher temperatures shorten pot life, whereas lower temperatures will extend it. The general rule of thumb is that a temperature change of ± 10°C halves or doubles the pot life of the epoxy.

**TECHNICAL DATA:**

Characteristic	Unit	Value	Comments
Consumption	g/m <sup>2</sup>	300 - 450	For non-absorptive substrate per coat
Mixing Ratio	P.b.w	2 : 1	Resin : Hardener
Density	Kg/l	~ 1.7	At 30°C
Pot life	min	240	At 30°C
Open Time	min	400	At 30°C
Compressive Strength	N/mm <sup>2</sup>	≥ 55	As per ASTM C 579 at 30°C after 7days
Substrate Temperature	°C	+ 15 + 40	Minimum Temperature Maximum Temperature

**PRODUCT CHARACTERISTICS:**

<b>Form</b>	Two Component Solvent Free Epoxy Coating
<b>Colour</b>	Grey
<b>Component</b>	Resin and Hardener
<b>Shelf Life</b>	12 Months from date of Manufacture if stored in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost.
<b>Delivery</b>	Resin 2kg and 4 kg : Hardener 1kg and 2kg
<b>Disposal</b>	Empty packs completely and dispose off carefully to protect our Environment

**Safety Advice:** Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

**Note:** The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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