BE SURE. BUILD SURE.

MC-Solid 1252

Solvent-free moisture insensitive thixotropic Epoxy adhesive.

PRODUCT PROPERTIES:

- Thixotropic grade Epoxy adhesive.
- High bond strength.
- Solvent free and moisture insensitive.
- Good spread ability under pressure.
- Easy to mix and water tight.
- Virtually shrinkage free.
- High mechanical strength.
- Easy to apply, trowelable.
- Confirms to FIP, ASTM C-579, ASTM C 882, DIN EN 196, ISO 527.

AREAS OF APPLICATION:

- Bonding of precast segments in bridges, tunnels, etc.
- For general bonding of different building materials on vertical faces (Concrete, steel stones, iron, wood, etc).
- For leveling of vertical and overhead surfaces.
- For repair and corners and joint edges.
- Epoxy for filling tie-rods, dowel holes.
- For bonding new concrete to old concrete.

APPLICATION NOTES:

- **General: MC-Solid 1252** is specially formulated, solvent free, Moisture Insensitive, thixotropic grade of epoxy for bonding of vertical elements and precast segments in RCC or PCC structure to provide a water tight structural joint. **MC-Solid 1252** hardens without shrinkage. **MC-Solid 1252** possesses high bonding and high modulus of elasticity.
- **Surface preparation:** The surface to be applied must be clean, free of dust, laitance, loose particles, contamination and curing compound residues. The minimum concrete compressive strength necessary should be >25 N/mm², substrate pull off strength of 1.5 N/mm² is required. Please refer to our General application Guideline for more technical information.
- **Mixing:**
    - **MC-Solid 1252** 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.
    - When used as a segment bonding adhesive, hand mixing is not suitable. Depending upon thickness of adhesive, the thixotropy can be also controlled by addition of suitable fillers.
    - The adhesive is applied to the prepared surface of segments to both faces by means of suitable trowels, spreaders or spatulas to either one or both surfaces. Jointing should be done with the open time and pot life of the adhesive.
- New concrete casting will be done immediately after the application of **MC-Solid 1252**.

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- Coverage rates of **MC-Solid 1252** 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. All the tools and tackles will be cleaned by using MC-Reinigungsmittel U solution. If it hardened then it should be removed mechanically.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Specific gravity	Kg/L	1.4 – 1.5	At 30°C
Mixing ratio	p.b.w	2 : 1	Resin : Hardener
Pot life	min	>40	100gm mass at 30°C
Compressive strength	N/mm²	>60 >75	At 1 days as per ASTM C-579 At 7 days as per ASTM C-579
Bond strength	N/mm²	>10	On concrete at 7 days as per ASTM C 882
Flexural strength	N/mm²	>25	At 7 days as per DIN EN 196
Tensile strength	N/mm²	>10	At 7 days as per ISO 527
Tensile E modulus	N/mm²	1,500	At 7 days as per ISO 527
Coverage	m²/pack	1.63	At 2mm thickness

PRODUCT CHARACTERISTICS:

Type of product	Solvent free, moisture insensitive, Thixotropic bonding Epoxy.
Form	Resin and Hardener.
Colour	Grey (Mixed Material).
Shelf life	12 months from the date of manufacture.
Delivery	6 kg packs.
Storage	In unopened packaging, protect from rain, direct sunlight, heat and frost.
Disposal	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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