

METZ C100

CARBON FABRIC EPOXY ADHESIVE



DESCRIPTION:

Metz C100 is a thixotropic two-component, solvent-free epoxy with enhanced properties specifically designed for use with Metz Carbon Fabric Wrapping System.

Metz C100 is used as an adhesive and saturant for Metz Carbon Fabric.

When desired, Metz Epoxy Coating System can be applied directly on top of Metz C100 for aesthetic or corrosion protection reasons.

FEATURES AND BENEFITS:

- Self-priming
- Low VOC
- Non-slump, can be applied on vertical and overhead installation
- Excellent Adhesion
Good bond to both wet and dry substrates. Suitable for immersion under water after curing
- Solventless
100% solids system.
- Cures under adverse conditions
Cures at temperatures down to 5°C and high relative humidity. Moisture tolerant during cure.
- Long pot life
- Withstands temperatures to at least 100°C
- Quality Accreditation
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

RECOMMENDED:

To be used with Metz Carbon Fabric Wrapping System.

For overcoating where required with compatible Metz Epoxy Coating Systems.

PHYSICAL PROPERTIES: (Typical Values)

Density g/cm ³ :	1.06
Adhesion to concrete (ASTM D7234):	>1.5MPa (Concrete failure)
Max. Service Temp.:	100°C
Colour:	Green (other colours by special order)

COVERAGE: Theoretical quantities (allow for wastage)

0.21 - 0.3 kgs per sq. metre at 0.2mm thickness depending on absorbency and roughness of surface.

0.4 - 0.5 kg per sq. metre when incorporating Metz Carbon Fabric Reinforcement, depending on fabric thickness.

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INSTRUCTIONS FOR USE

1. Temperature of Working Area

For optimum results, maintain a temperature of 5°C to 30°C on air and substrate and components during application and curing.

At temperatures below 5°C, the application becomes more difficult and curing is retarded.

At temperatures above 30°C, the working time decreases.

2. Surface Preparation

Concrete should normally be at least 28 days old and have surface moisture content of less than 10%.

All surfaces must be sound, clean, smooth and free from oil, grease, water and other contaminants which may inhibit bond.

Fill up any holes and remove all sharp edges and protruding surfaces.

Remove all standing water.

3. Mixing

a) Mixing Equipment

Mechanical mixing is recommended.

A low speed drill with appropriate mixing paddle is suitable.

Small quantities can be mixed by hand, using a trowel or spatula.

b) Mixing Proportions

	By Weight	By Volume
C100 Part A	2	1.8
C100 Part B	1	1

Note: the liquid to hardener ratio must not be altered under any circumstances

c) Mixing Procedure

Mix Part A and Part B together thoroughly for a minimum of 30 seconds and at least until all material is on consistent appearance.

Ensure complete mixing.

Material which has begun to set must be discarded.

Do not add any solvent, additive or adulterant to any component or to the mixed material.

d) Pot Life

at 20°C	60 minutes
at 30°C	40 minutes
at 40°C	30 minutes

Note: Increase in temperature will decrease pot life, as will leaving mixed material in a large mass.

e) Clean Up

Mixing equipment, tools, etc., can be cleaned with Metz Cleaner, xylene, acetone or MEK prior to initial set of cement.

4. Installation

Apply to concrete using short nap roller or nylon bristle brush.

Apply Metz Carbon Fabric reinforcement and flatten out to ensure that no voids exist in the coating under the fabric. Overlap all edges of fabric by minimum of 50mm.

Apply Metz C100 to ensure full coverage of Metz Carbon Fabric

Note: It is important to have solid, smooth and flat surfaces. Remove all sharp edges and fill up all holes and cracks. Contact Metz for suitable material to fill up holes and cracks.

Metz Epoxy Coatings can be used to give better surface appearance. Contact Metz for recommended material.

5. Setting/Curing

Minimum open time	120 min (at 20°C)
Setting time	12 hours (at 20°C)

6. Storage

Store in original sealed containers in cool dry place between 10°C to 30°C. Under these conditions minimum shelf life is 12 months.

7. Standard Pack Size

Metz C100 Part A	20kg drum
Metz C100 Part B	10kg drum

8. Safety Precautions

Part A and Part B

Use chemical goggles, PVC gloves and barrier cream.

Avoid contact with skin and eyes.

For full safety precautions refer to Safety Data Sheets for both components.

Always ensure you have the latest data sheet version, refer www.metz.net.au

- The customer must comply strictly with the instructions contained in this product data sheet. Metz is not responsible for any advice or variations to this data sheet which are not confirmed in writing.
- If the customer has a claim against Metz in respect of any product supplied to the customer by Metz whether due to a fault in the product or the negligence or breach of contract by Metz or for any other reason:
 - Metz shall not be liable for any loss or damage including consequential loss or damage or loss of profits arising thereby;
 - Metz may at its option replace the defective product free of charge to the customer or refund all payments made to it by the buyer in respect of the defective product; and the maximum liability of Metz shall be the cost of replacing the defective product.