

# MAXTREAT<sup>®</sup> GLUE

*Epoxy resin based adhesive for Maxtreat (FRP) laminate system.*

Two-component product based on epoxy-ammino, charged with fillers and pigments, formulated as adhesive which cures at room temperatures.

## Uses

Maxtreat Glue is used as an adhesive for the Maxtreat Laminate system used in the repair or restoration of structures.

## Benefits

- High strength
- Non - slump
- High bond strength
- Chemical resistant
- Impact Resistant
- Non shrink
- High thixotropy.
- High reactivity.
- High mechanical resistance.

## Properties

### Performance Characteristics:

Coefficient of thermal expansion as per EN 1770  $30 \times 10^{-6} ^\circ\text{C}$

Total shrinkage as per EN 12617-1 0.07%

Adhesion by direct pull-off  $>10 \text{ N/mm}^2$

Flexural strength at 7 days  $>20 \text{ N/mm}^2$

Compressive strength at 7 days  $>60 \text{ N/mm}^2$

Elasticity modulus in compression EN 13412  $4000 \text{ N/mm}^2$

Slant shear bond strength  $> 13 \text{ N/mm}^2$

### Applicative Characteristics:

Composition Two-part

Type of resin Epoxy

Solids by volume 100%

Mixing ratio by weight 2.1:0.9

Mixed Density 1.8 kg/L

Workable time of mixture 30 minutes @  $40^\circ\text{C}$  in summer

Open Time 60 minutes @  $40^\circ\text{C}$

Consumption 1 lit/m<sup>2</sup> @1mm thickness

## Instructions for use

### Surface preparation

Prior to the application of the adhesive, it is necessary to verify the condition of the cementitious substrate: it must be clean and oil free, without fats, delaminating particles and free from cracks and discontinuities. The preparation of the substrate should be done choosing the proper following procedures:

- Elimination with proper equipment of the superficial dust when the substrate seems in good condition. Vacuuming and/or washing with pressured water is always recommended.

- Repair or level with cement based mortars or resin based materials, when the substrate has cracks or anomalies. In any case, apply the coating only on de-dusted and sound substrates.

- Sandblast or shot blast with steel abrasive grit is needed in case of non-cohesive parts. Avoid the application on substrates contaminated with oil and/or grease.

### Mixing

The base and hardener into a suitable container shall be emptied and mixed with a paddle and slow speed heavy duty drill, ensuring the sides are scraped down. A uniform grey colour should be obtained after mixing thoroughly.

### Application

The mixed adhesive is applied to both surfaces i.e. concrete & carbon fibre plate and is pressed in position & held in position by using adhesive tapes or any suitable methods for a few hours.

**IMPORTANT :** When the room temperature and the substrate are less than  $10^\circ\text{C}$ , it is necessary to heat separately the 2 components of the product to a maximum temperature of  $30^\circ\text{C}$  in order to maintain the product mellowness and the better applicability.

### Limitations

For applications to substrate surfaces, at extreme climatic conditions or use other than those indicated in the product sheet, please contact your local THERMAX representative or our Technical Department for further information.

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## Health & Safety Instructions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item.

For further information refer to the material safety data sheet. MSDS available on demand.

## Storage

### Shelf life

All the above products have a shelf life of 12 months if stored in unopened containers below 35 °C.

## Packing

### 2 ltr Pack

### Coverage

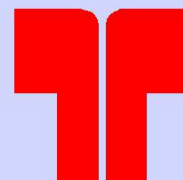
1 ltr/m<sup>2</sup> per pack @ 1mm thickness

## Other segments :

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation • Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives
- Cement Grinding Aids

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## THERMAX

Thermax Limited  
Environment House, Plot No.90-92  
BG Block, MIDC, Bhosari,  
Pune 411 026, India.  
Tel: +91-20-67156152,  
67156000  
Fax: +91-20-27120206  
Customer Care: 18002090115 (India toll  
free) Email :  
[chemicals@thermaxindia.com](mailto:chemicals@thermaxindia.com)

### Ahmedabad

Tel: +91-79-26575408 • Fax: +91-79-65577270

### Bengaluru

Tel: +91-80-22371721 • Fax: +91-80-22371726

### Chennai

Tel: +91-44-24303400 • Fax: +91-44-24353841

### Delhi

Tel: +91-11- 46087200 • Fax: +91-11- 26145311

### Hyderabad

Tel: +91-40-23253700 • Fax: +91-40-23253799

### Kolkata

Tel: +91-33-66070800 • Fax: +91-33-66070999

### Mumbai

Tel: +91-22-67542222 • Fax: +91-22-22040859

### Thermax World-wide

UK, USA, UAE, Germany, Belgium, Denmark, Russia,  
Saudi Arabia, Thailand, Malaysia, Bangladesh,  
Sri Lanka, China, Philippines, Peru, Chile, Kenya,  
Nigeria, Brazil, Indonesia

Website: [www.thermaxindia.com](http://www.thermaxindia.com)

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