



GMSA Anchoring Bolt Epoxy

PRODUCT DESCRIPTION

GMSA Anchoring Bolt Epoxy is a two component, 100% solids epoxy designed to anchor threaded rod, bolts, rebar dowels and smooth dowels into concrete, grout filled block, and other non-reinforced masonry.

Typical applications include seismic anchoring and bracing, grouting dowel bars and tie bars for full-depth concrete pavement repairs, capping paste for crack injection, and anchoring in wet and submerged applications.

FEATURES

- Safe-Solvent free, Oil based
- Colorfast and waterproof after curing
- Can be painted over after curing
- Easy to use – two components proper mixing is done by static mixer
- Good adhesion to wood, concrete, metal and marble without primer

TECHNICAL DATA

As Supplied – tested at 29°C±2°C, RH45%±5%:

Technology	Epoxy
Chemical Type	Epoxy
Appearance (Resin)	White paste
Appearance (Hardener)	Black paste
Appearance (Mixture)	Grey paste
Components	Two component - requires mixing
Mix Ratio, by volume – Resin : Hardener	1 : 1
Mix Ratio, by weight - Resin : Hardener	100 : 80
Cure	Room temperature curing after mixing
Working Time (Mixing)	20 mins.
Skin Time	30 mins.
Application	Grouting
Application Temperature	5 to 45 °C

Typical properties of uncured material:

Resin	
Density (at 20°C)	1.74 g/cm ³
Viscosity (at 20°C)	900000-1500000 mPa.s (Brookfield Sp 7 0.5 rpm)
Hardener	
Density (at 20°C)	1.47 g/cm ³
Viscosity (at 20°C)	800000-1200000 mPa.s (Brookfield Sp 7 0.5 rpm)

Typical properties of cured material:

Cured @ 24 °C for 7 days, tested @ 24 °C or as noted	
Compressive Strength, at yield, ASTM D695 (ISO 604) @ 24 °C	79 N/mm ² 11,410 psi
Tensile Strength ASTM D 638 (ISO 527-2)	21 N/mm ² 3080 psi
Elongation, at failure ASTM D 638 (ISO 527-2)	3.3 %
Linear Shrinkage, ASTM D2566	0.2 %

APPLICATIONS

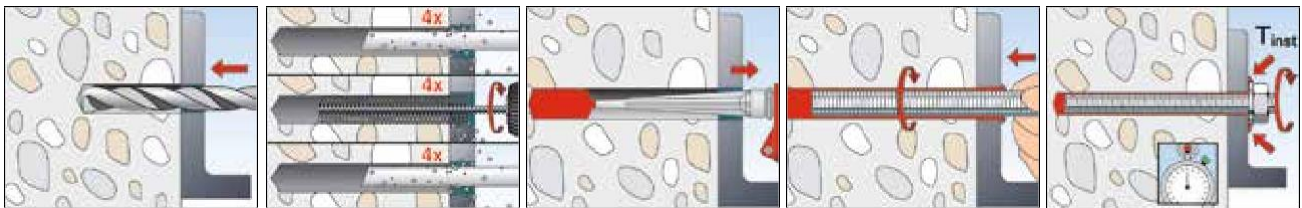
Used for steel constructions, railings, hand-rails, consoles, ladders, machines, cable trays, staircases, gates, facades, window elements, high racks, canopies, stand-off installations.

GENERAL INFORMATION

Directions for use:

1. Drill hole to desired diameter and depth. Clean out the hole and brush with a bristle brush. Blow out the remaining dust from the bottom of the hole. The hole should be clean of all dust, debris or other contaminants. The hole may be damp.
2. Remove plastic cap and plugs from the cartridge. Dispense a small amount of adhesive to ensure that both black and white materials flow freely and evenly from the cartridge.
3. Attach mixing nozzle to cartridge and dispense a small amount of adhesive into a waste container.
4. Fill holes 1/2 to 3/4 full by dispensing adhesive, beginning at the bottom of hole.
5. Insert the anchor bolt, threaded rod or rebar to the bottom of the hole while turning clockwise.
6. Do not touch or bolt-up until the recommended adhesive cure time has passed.

As shown below:



SHELF LIFE

Store product in the unopened container in a dry location. Material removed from containers may be contaminated during use. Do not return liquid to original container.

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and 27°C. Optimal storage is at the lower half of this temperature range.

NOTES FOR SAFE OPERATION

Keep out of reach of children. Place shall be well ventilated. Don't let the product sealant touch your eyes. If it accidentally goes into your eyes, wash your eyes with rinsing. When using detergent, the corresponding specification shall be accorded to. Before operation, please carefully read the specifications of products and material, and instructions on the package of container.

OTHER INFORMATION

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control.

Remark: The directives contained in this documentation are the result of our experiment and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommend out preliminary experiments.