



MIX2FIX® GP Gel Adhesive

Product description

MIX2FIX GP Gel Adhesive is a two-component, non-sag, epoxy adhesive/repair paste. It is 100% solids, contains no solvents, and is extremely easy to mix and apply. This product incorporates a blue dye which becomes clear when correctly mixed with the hardener components. Its convenient 1:1 mix ratio allows easy mixing.

Basic uses

MIX2FIX GP Gel Adhesive bonds well to most surfaces, and in 24 hours forms a tough bond to a wide variety of substrates, including wood, steel, aluminum, cast iron, fiberglass/GRP, concrete, stone, china, copper, and unglazed ceramic. Use it to restore rotted wood, interior and exterior; repair and restore decking and damaged wood furniture; bond wood flooring and decking; repair gashes and dings in fiberglass boats, surfboards, baths and shower trays; fill and seal cracks in concrete and masonry.

Benefits

- Simple preparation (1:1 mixing ratio).
- Contains no volatiles.
- Excellent adhesion to a wide variety of substrates.
- Long open time.
- PSI's fading dye technology makes it easy to determine when product is properly mixed.

Application limitations

- Does not adhere to polyethylene, polypropylene or PTFE.
- See performance data for temperature limits.
- Do not apply at temperatures below 41°F (5°C).
- Not intended for structural applications.

Color

Cured color is Amber.

Packaging

Available in 80-lb (36-kg) kits; special packaging is available upon request for private label. Other packaging options to be determined. Minimum batch quantities apply.

How to use

Surface preparation: To achieve optimum adhesion, surfaces should be sound and free of grease and dirt. Scuffing or sanding the surface with 80- to 120-grit emery paper prior to cleaning with an appropriate solvent helps ensure a good bond.

Mixing and application: Wear impermeable gloves when mixing or handling uncured product. Using equal portions of the resin and hardener, thoroughly mix until the blue color completely disappears and then apply. Mixing should take at least 2 to 3 minutes, depending on quantity. Try not to mix air into the material, particularly when using a mechanical stirrer for large quantities. Do not mix both containers together unless all of the material will be used in one application to be completed within the allowed work life. Containers of unmixed material can be resealed for future use.

Evenly apply mixed adhesive to both surfaces to be joined, taking care to avoid air bubbles. Press the parts together and clamp lightly until the adhesive has gelled and developed handling strength, typically 8 hours at 75°F (24°C). Product cures faster at higher temperatures and larger volumes, slower at lower temperatures and in thin sections. Do not apply full load until the adhesive has completely cured.

Shelf life: Two years from date of shipment when stored in unopened containers in a dry area at temperatures below 75°F (24°C).

Health precautions

- Contains Epoxy Resin. Epoxies are skin/eye irritants and known sensitizers. Direct product contact may cause an allergic reaction in some individuals. Avoid skin/eye contact. Wear impermeable gloves when mixing or handling uncured product.
- Inhalation of dust may be harmful. Avoid inhalation of dust. Wear dust mask and protective eyewear when sanding cured product.
- Ingestion of product may be harmful. Avoid ingestion.
- KEEP OUT OF THE REACH OF CHILDREN.

For additional health and safety information, consult a Safety Data Sheet.

Performance Data*		
Properties	Results	Test Method
Uncured Properties		
Composition	Two-part epoxy adhesive	
Physical appearance	Gel	
Odor (hardener)	Slight amine smell (no odor when cured)	
Mix ratio by volume and weight	1:1	
Viscosity	1,000,000 cps	
Mixed density	8.34 lb/gl (1.02 g/cm ³)	
Application temperature	50 to 95°F (10 to 35°C)	
Work life at 75°F (24°C)	3 hours	
Handling time at 75°F (24°C)	8 hours	
Return to service time at 75°F (24°C)	7 days	
Cured Properties - 7-day cure at 75°F (24°C)		
Physical appearance when cured	Amber solid	
Hardness, Shore D	65	ASTM D2240
Tensile strength	5,000 psi (34 MPa)	ASTM D925
Lap shear tensile strength		ASTM D1002
On steel	2,175 psi (15 MPa)	
On aluminum	1,740 psi (12 MPa)	
On glass	1,160 psi (8 MPa) substrate failure	
On fiberglass	1,160 psi (8 MPa) adhesive failure	
On softwood	1,050 to 1,450 psi (7 to 10 MPa) substrate failure	
On hardwood	1,160 psi (8 MPa) adhesive failure	
On marine plywood	725 psi (5 MPa) substrate failure	
Compressive strength	7,250 psi (50 MPa)	ASTM D695
Temperature limits		
Continuous	-40°F to +250°F (-40°F to +121°C)	
Intermittent	-40°F to +300°F (-40°F to +149°C)	
Chemical resistance	Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids and bases	
* Typical properties are for information only, not for purposes of specification. The data above represents product performance in ideal laboratory conditions. Individual users' experience may vary depending on application conditions.		

Contact Details

Polymeric Systems, Inc., is a part of Whitford Worldwide.

For more information, please contact Polymeric Systems or Whitford Ltd. at:

Polymeric Systems, Inc.

47 Park Avenue

Elverson, PA, USA 19520

Tel: [1] (610) 286-2500

Email: sales@polymericsystems.com

Website: polymericsystems.com



Whitford Ltd.

11 Stuart Road, Manor Park
Runcorn, Cheshire, UK WA7 1TH

Tel: [44] (0) 1928 571000

Email: salesuk@whitfordww.com

Website: whitfordww.com

Toll Free: 800-CAULK IT (800-228-5548)

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