



# Kneadatite® Blue/Yellow® Epoxy Sealant/Adhesive

## Product description

Kneadatite Blue/Yellow is a two-part epoxy/polyamide sealant that cures at room temperature. The base and curing agent are of contrasting colors. When kneaded together, they become one color, indicating complete mixing. Blue/Yellow's consistency (like modeling clay) eliminates drips and runs, facilitates adhesion to the substrate and allows shaping before curing begins.

Once cured, it can be tapped, drilled, sawed, screwed, filed and painted. It will not corrode or rust. It resists water, chemicals and temperature extremes. It won't shrink or pull away.

## Basic uses

Kneadatite Blue/Yellow is for all types of quick interior and exterior maintenance and repairs. Use it to repair cracks in pipes and tanks, make underwater pool repairs, fill small automobile dents, create custom-formed gaskets, attach signs, hang light fixtures and replace stripped screws.

Nicknamed "Green" by sculptors, Blue/Yellow is well known for its long work life, non-grainy texture and its ability to hold fine detail. Mixing proportions can be adjusted to control cure time. Cured models withstand the heat and pressure of up to 4 vulcanizations in the mold-making process for castings.

## Benefits

- No shrinkage.
- Solvent-resistant.
- Long work life.

## Application limitations

- Will not adhere to polyethylene, polypropylene or PTFE.
- Not intended for use in structural applications.

## Color

Base is Yellow; curing agent is Blue; cured color is Green.

## Packaging

Kneadatite Blue/Yellow Epoxy is available as two bars in a reusable, 8-inch plastic tube with end cap and as a roll of 1-inch by 36-inch tape (100 gms) in a plastic box. Both are packaged 24 per carton.



## Application

**Surface preparation:** Before applying, roughen and clean the area to be repaired.

**Mixing and application:** Cut or twist off 1 part curing agent (blue) to 1.5 parts base (yellow). Mix by kneading with fingers to a uniform color. For best results, use damp fingers for easier mixing and application.

Apply to the surface to be repaired within 1 hour of mixing. Force into cracks or holes and remove excess material before hardening begins, preferably with a tool that is moistened with water. When applying to a damp, wet or slowly leaking area, work the material forcefully into the surface and apply pressure until adhesion begins to take effect.

Kneadatite Blue/Yellow has a 1 to 2 hour work life, after which it will harden and form a tenacious bond. After just 4 to 5 hours the repair can be drilled, sawed, carved, sanded, stained or painted. Ultimate hardness is reached in 20 to 24 hours.

**Shelf life:** One year minimum from date of shipment when stored in original, unopened container at 75°F (24°C).

## Availability and cost

Polymeric Systems, Inc., is a part of Whitford Worldwide. For more information, please contact Polymeric Systems or Whitford Plastics Ltd. at:

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 888-EPOXY FIX (888-376-9934)  
 Tel: [1] 610-286-2500  
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 Runcorn, Cheshire, UK WA7 1ST  
 Tel: [44] (1928) 571000  
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### Health Precautions

- May cause irritation to sensitive skin. Wash hands with soap and water after use.
- May be harmful if swallowed.
- Eye irritant. In case of contact, flush with water. Contact physician.
- Keep out of reach of children.
- When sanding cured putty and substrate, use protective eye wear and dust mask.
- Turn off power when doing electrical repairs.

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

Performance Data*		
Properties	Results	Test Method
<b>Uncured Properties</b>		
Mix ratio, base to curing agent	1.5:1	
Non-volatile content	100%	
Density	1.53 gm/cm <sup>3</sup> 12.8 lb/gal	
Work life at 75°F (24°C)	1.5 to 2 hours	
Uncured green strength, vertical shear (1" x 1" x 1/16")	1.25 psi	
Cure time to Shore D Hardness 30	4 to 5 hours	
Cure time to ultimate hardness	20 to 24 hours	
<b>Cured Mechanical Properties</b>		
Hardness, Shore D	60	ASTM D2240
Lap shear tensile strength on steel (1" x 1" x 1/16")	500 psi	ASTM D1002
Elongation	15%	ASTM D638
Shrinkage	<1%	ASTM D2566
Upper temperature limits		
Continuous	250°F (121°C)	
Intermittent	300°F (149°C)	
Chemical resistance	Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions, and dilute acids and bases	
<b>Cured Electrical Properties</b>		
Electrical resistance	30,000 megohms	ASTM D257
Dielectric strength	300 volts/mil	ASTM D149

\* Typical properties are for information only, not for purposes of specification.

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