



Kneadatite® Blue/Yellow® Epoxy Sealant/Adhesive

Product description

Kneadatite Blue/Yellow is a room-temperature curing, two-part epoxy-sealant for all types of interior and exterior maintenance and repairs. When properly mixed together to a uniform green color, it forms an industrial-strength polymer compound for repair, modeling, and sculpting. 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 sawed, drilled, carved, sanded, and painted.

- Tenacious adhesion to almost any surface.
- Solvent-free; no VOCs.
- Long work life.
- Won't shrink, pull away, corrode, or rust.
- Solvent-, chemical- and water-resistant.

Application limitations

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

Basic uses

Use Blue/Yellow to repair cracks in pipes and tanks, make underwater pool repairs, fill small automobile dents, form custom gaskets, attach signs, hang light fixtures, repair stripped screw holes, and much, much more.

Nicknamed "Green" by sculptors, Blue/Yellow is well known for its long work life, non-grainy texture, and ability to hold fine detail. Cured models withstand the heat and pressure of up to 4 vulcanizations in the mold-making process for castings. Sculptors using this product will find helpful tips and information in our Sculptor's Information Sheet available on our website at www.polymericsystems.com.

Benefits

- Hand-mixable with no messy residue or cleanup.
- Applies and shapes like putty.

Performance Data*

Properties	Results	Test Method
Uncured Properties		
Mix ratio, base (yellow) to curing agent (blue)	1.5:1	
Non-volatile content	100%	
Density	1.53 gm/cm ³ 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	
Cured Mechanical Properties		
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, esters, alcohols, halocarbons, aqueous salt solutions, and dilute acids and bases	
Cured Electrical Properties		
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.

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: Tape - Cut or twist off equal lengths of flat blue and yellow tape.

Sticks - Cut or twist off 1 part curing agent (blue) to 1.5 parts base (yellow).

Use of thin plastic or rubber gloves is recommended when handling uncured Blue/Yellow. Mix by twisting and 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 moistened with water. When applying to a damp or wet area, work the material forcefully into the surface and apply pressure until adhesion begins to take effect.

Kneadatite Blue/Yellow has a 1 1/2 to 2-hour work life. Functional cure occurs after 4 to 5 hours, when the application can be sawed, drilled, carved, sanded, and 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).

Health Precautions

- Contains epoxy and amine resins which may irritate skin and eyes. Use of thin plastic or rubber gloves is recommended when handling uncured material. Thoroughly wash hands with soap and water after use. If skin irritation occurs, contact physician.
- Do not handle contact lenses until product is cleaned from fingertips, nails and cuticles. Product can transfer to contact lenses and cause eye irritation or injury.
- In case of eye contact, rinse with tap water for 15 minutes. If irritation develops, see medical care.
- May be harmful if swallowed. If swallowed, do not induce vomiting; get prompt medical care.
- 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.

Availability and cost

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

Polymeric Systems, Inc.
47 Park Avenue
Elverson, PA, USA 19520
888-EPOXY FIX (888-376-9934)
Tel: [1] 610-286-2500
Email: sales@polymericsystems.com
Website: polymericsystems.com

In the EU contact:

Whitford Plastics Ltd.
10, Christleton Court, Manor Park
Runcorn, Cheshire, UK WA7 1ST
Tel: [44] (1928) 571000
Email: salesuk@whitfordww.com
Website: whitfordww.com

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