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LOW MODULUS FAST SET EPOXY GEL

Strong Semi-Flexible Epoxy Gel

Epoxy Gel for Shallow Repairs on Vertical or Horizontal Surfaces

Epoxy.com Product #2005

PRODUCT DESCRIPTION

Product #2005 Low Modulus Fast Set Epoxy Gel is a two component 100% solids epoxy gel designed for shallow repair on either vertical or horizontal surfaces. This product is easy to mix and use and has the consistency of Vaseline petroleum jelly. Additionally, the product, because it is a 100% solids product, can be applied thicker on horizontal surfaces when required. This is a make to order product. **Current minimum order for this is 6 each 3 gallon units, 18 gallons total.**

RECOMMENDED USES

Product #2005 Low Modulus Fast Set Epoxy Gel is recommended for repairing cracks and defects in concrete or masonry. The fast set time makes this product an ideal quick repair gel.

PRIMER

None necessary

TOPCOAT

Optional: This product can be overcoated with many suitable epoxy and urethane products.

LIMITATIONS

- Color stability may be affected by environmental conditions such as high humidity, temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.
- Colors or clarity may vary from batch to batch.
- This product is not UV color stable and may discolor when exposed to UV light sources.
- Substrate temperature must be 5°F above dew point.
- This product has a very short pot life. Therefore, mix only an amount that can be used in a short period of time.
- Do not topcoat over this product until it has sufficiently hardened.
- All new concrete must be cured for at least 30 days prior to application.
- Physical properties are typical values and not specifications.

MIXING AND APPLICATION

PRODUCT STORAGE

Store **Product #2005 Low Modulus Fast Set Epoxy Gel** at normal room temperature before using. Continuous storage should be between 60 and 90°F. Low temperatures or temperature fluctuations may cause crystallization.

SURFACE PREPARATION

All dirt, foreign contaminants, oil, and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet then taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start repair work. This product is intended for hairline cracks and other fractures up to 1/8 inch in width. Remove all unsound concrete from within the crack to be repaired and thoroughly vacuum all debris and dust from within the crack opening. See [Epoxy Surface Preparation Procedures](#) for more details.

PRODUCT MIXING

Product #2005 Low Modulus Fast Set Epoxy Gel has a mix ratio of 1 part A to 1 part B by volume. To mix, simply measure out equal volumes of the material and mix them together thoroughly with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Mix only an amount of material that can be used in a short period of time. A two gallon volume of material will have a usable pot life of about 7-10 minutes. Smaller volumes will be easier to work with as well as adding more time to the usable pot life. Improper or insufficient mixing may result in product failure.

PRIMING

No priming is necessary.

PRODUCT APPLICATION

The mixed **Product #2005 Low Modulus Fast Set Epoxy Gel** can be applied by marginal trowel, putty knife, or any other suitable equipment.

RECOAT OR TOPCOATING

When placing a topcoat over a repaired crack, allow the **Product #2005 Low Modulus Fast Set Epoxy Gel** to cure before installing the coating. If excessive amounts are spread well beyond the crack repair or in areas where surface repairs have been implemented, it is best to check the cured areas for any possible amine blush (a whitish, greasy film or deglossing) prior to coating over this material. If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy coatings and urethanes are compatible for use over this product as well as multiple coats of this

product.

CLEANUP

Use xylene

FLOOR CLEANING

Caution! Some cleaners may affect the color of the fast gel installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS

Restrict the use of the floor to light traffic and non-harsh chemicals until the **Product #2005 Low Modulus Fast Set Epoxy Gel** is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

Physical Properties>

SOLIDS BY WEIGHT:	100%
SOLIDS BY VOLUME:	100%
VOLATILE ORGANIC CONTENT:	Zero pounds per gallon
COLORS AVAILABLE:	Amber clear- semi-transparent
RECOMMENDED FILM THICKNESS:	1/8" cracks or thin build repairs
COVERAGE PER GALLON:	1,228 lineal feet @ 1/8"x 1/8"
MIX RATIO:	1A:1B by volume 9A:8B by Weight
PACKAGING	2 gallon kit (17.0 lb approximately) 10 gallon kits (85.0 lb approximately)
INFORMATION SHELF LIFE:	1 year in unopened container
FLEXURAL STRENGTH:	8,590 psi @ ASTM D790
COMPRESSIVE STRENGTH:	6,110 psi @ ASTM D695- 1/2" x 1/2" bars
TENSILE STRENGTH:	4,980 psi @ ASTM D638
ULTIMATE ELONGATION:	14.1%
HARDNESS:	Shore D= 35
GARDNER VARIABLE IMPACTOR:	50 inch pounds direct – passed
ADHESION:	360 psi @ elcometer (concrete failure, no delamination)
ABRASION RESISTANCE:	Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 52 mg loss
HEAT DEFLECTION TEMP.:	47 degrees C (116.5 degrees F)
VISCOSITY:	Mixed= 3,000,000 cps (typical)
DOT CLASSIFICATION:	Part A "not regulated" Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII

Cure Schedule at 70°F

Pot Life – 2 gallon volume	7-10 minutes
Tack Free (dry to touch)	1-3 hours
Recoat or Topcoat	10-12 hours
Light Foot Traffic	11-13 hours full cure
Heavy Traffic	2-7 days
Application Temperature	50-90 degrees F. with relative humidity below 85% for best results.

CHEMICAL RESISTANCE

REAGENT	RATING
butanol	C
xylene	B
1,1,1 trichloroethane	B
MEK	A
methanol	A
ethyl alcohol	A
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HCl (aq)	C
5% acetic acid	A

Rating key:

- A - not recommended
- B - 2 hour term splash spill
- C - 8 hour term splash spill
- D - 72 hour immersion
- E - long term immersion.

NOTE: extensive chemical resistance information is available through Epoxy.com Technical Support.

BLOG POSTS & NEWS

You can find more information on [Epoxy Gel Products](#), and many of our other products at news.epoxy.com.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.

Proper mixing and installation is critical to the optimal success of all product. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

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