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Underwater Pourable Crack Filler

Moisture insensitive Epoxy Crack and Joint Sealant

Epoxy Joint Filler where Water Cannot be Controled

Epoxy.com Product #2708

DESCRIPTION

Product #2708 Under Water Pourable Epoxy Crack and Joint Filler is a two component 100% solids epoxy designed for applications where contamination from water cannot be controlled or for underwater repairs and applications.

RECOMMENDED USES

Product #2708 Under Water Pourable Epoxy Crack and Joint Filler is recommended for repairing defects in concrete, cement or masonry products underwater or on wet substrates .

PRIMER

None necessary

TOPCOAT

Optional

LIMITATIONS

- Color stability may be affected by environmental conditions such as immersion service, temperature, or chemical exposure.

Colors may vary from batch to batch. Therefore, use only product from same batch for an entire job.
- This product is not UV color stable and will discolor when exposed to UV rays or some indoor lighting such as sodium vapor lights.
- All new concrete must be cured for at least 30 days prior to application. \
- It is advisable to place test patches prior to undertaking underwater or water contaminated repairs to insure product and surface compatibility.
- The temperature of the water may increase or decrease the time for the material to cure, dependent on the temperature of the water.
- Physical properties are typical values and not specifications.

INSTALLATION INSTRUCTIONS

PRODUCT STORAGE

Store **Product #2708 Under Water Pourable Epoxy Crack and Joint Filler** 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

The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed from within the expansion joint to assure a trouble free bond to the substrate. However, this product can successfully be applied to damp, wet or even underwater substrates.

MIXING

Product #2708 Under Water Pourable Epoxy Crack and Joint Filler has a mix ratio of two parts A to one part B by volume. Normally, the product comes supplied in pre-measured kits. The most accurate way to measure mixing proportions would be by weight (11.6 pounds part A to 5.65 pounds part B although volume ratios at 2: 1 can be utilized). We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Make sure to scrape the sides and bottom of the mixing container thoroughly when mixing. Water will not impede the cure mechanism for this product. Improper mixing may result in product failure.

PRIMING

Primer is not necessary.

PRODUCT APPLICATION

The mixed **Product #2708 Under Water Pourable Epoxy Crack and Joint Filler** can be applied by pouring the mixed material directly into the crevice or expansion joint to be repaired. Remove any excess material with a putty knife or similar tool when not underwater. If applying the material underwater, then remove any excess with a scraper type tool after is has partially set up and tacked off. Because of the vastly differing types of applications possible for this product, we recommend that a representative sample be placed and evaluated prior to commencing any large job application.

When applying this material underwater, make sure that the material displaces all water beneath the application to assure contact with the substrate which will create a proper bond. The density of the material is greater than that of water and should force out the water when poured into the expansion joint. This product is not intended for small type hairline cracks. When applying material in an expansion joint, a suitable backer rod can be used provided it is not made of material that will absorb water.

RECOAT OR TOPCOATING

This **Product #2708 Under Water Pourable Epoxy Crack and Joint Filler** can be applied in successive applications. Topcoating with other products are normally not performed underwater. Always remember that colder temperatures will require more cure time for the product before recoating can commence.

CLEANUP

Use Xylene

FLOOR CLEANING

Caution! Some cleaners and immersion in some fluids may affect the color of the material installed. Test each cleaner or solution if color stability is important and process tested.

RESTRICTIONS

Restrict the use of the area to light traffic and non-harsh chemicals until the material is fully cured (see technical data under full cure).

Properties

SOLIDS BY WEIGHT:	100%
SOLIDS BY VOLUME:	100%
VOLATILE ORGANIC CONTENT:	Zero pounds per gallon
COLOR:	Light tan color when mixed
RECOMMENDED FILM THICKNESS:	variable
COVERAGE PER GALLON:	1,228 lineal feet @ 1/8” x 1/8”
PACKAGING INFORMATION	3 gallon kit
MIX RATIO:	11.6 Parts A to5.65 pounds B by Weight 2A:1B by Volume
SHELF LIFE:	1 year in unopened containers
FLEXURAL STRENGTH:	4,960 psi - ASTM D790
ADHESION:	395 psi @ elcometer (concrete failure, no delamination)
VISCOSITY:	Mixed - 187,000 cps (typical)
COMPRESSIVE STRENGTH:	9,440 psi ASTM D695
TENSILE STRENGTH:	4,114 psi ASTM D638
ELONGATION:	3.1%
ULTIMATE GARDNER VARIABLE IMPACTOR:	50 inch pounds direct – passed
SHRINKAGE:	Negligible, 100% solids
HARDNESS:	Shore D 83
HEAT DEFLECTION TEMP.:	59.4 degrees C
DOT CLASSIFICATIONS:	Part A “not regulated” Part B “CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII”

Cure Schedule

(70°) pot life – 1 ½ gallon volume	15-25 minutes
tack free (dry to touch)	6-10 hours
recoat or topcoat	10-16 hours
light foot traffic	16-24 hours
full cure (heavy traffic)	3-7 days
application temperature	35-90 degrees F.

Chemical Resistance

REAGENT	RATING

butanol	C
xylene	C
1,1,1 trichloroethane	C
MEK A methanol	A
ethyl alcohol	C
skydrol	B
10% sodium hydroxide	D
50% sodium hydroxide	C
10% sulfuric acid	C
70% sulfuric acid	A
0% HC1 (aq)	C
1 5% acetic acid	B

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.

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. N0 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.

For more information please contact:

Epoxy.com

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