

EPOXY CAST

100% Solids, Crystal Clear Casting Epoxy

PRODUCT DESCRIPTION

The EPOXY CAST is a two-component epoxy casting coating system which is VOC-free, 100% solids and odor free. This product can be poured at thickness levels (up to 1 ¾ inches or maximum 2 inches in a single coat for large application areas) while keeping a crystal-clear look. It has been formulated for casting applications. It displays excellent air release and color retention capabilities. It also possesses superior mechanical properties such as impact resistance without blushing, fisheying and drying to an extremely hard finish that is totally clear.

USES

Casting applications on various substrates. It can also be poured on concrete, wood, metal, granite, rocks, etc. We recommend performing adequate adhesion tests prior to using the product.

ADVANTAGES

- Excellent UV resistance
- Environment friendly (100% solids, VOC-free and no solvent)
- Odor free
- Easy application with long pot life and working time
- Ideal for casting, can also be used for small encapsulation applications

APPLICATION DATA

Mix Ratio	2A:1B	
Color	Clear	
Shelf Life	One year, in original unopened factory pails under normal storage conditions	
Applic. temp.	20°C	
Cure Time		
Gel Time	7 hours	20°C and 55% rel. hum
1 inch (Tack Free)	36 hours	20°C and 55% rel. hum
15 mils (Tack Free)	48 hours	20°C and 55% rel. hum
Solids Content	100%	

CURING TIME

The curing time of this product will depend on thickness and the shape of the volume poured. Curing times can differ significantly depending on the quantity poured at once, the shape sought and ambient temperature. It is recommended to apply the product when room temperature is stable (close to 20 degrees). If applied at low temperature, the product might not cure properly. High ambient temperature might create an exothermic reaction (refer the product Limitations section). Heating the product will help prevent the creation of bubbles but could trigger an exothermic reaction (refer to product Limitations section). We do not recommend exceeding a thickness of 2 inches if the application area is large. For very small applications areas or shapes, a thicker amount can be used. It is imperative to performing adequate tests prior to using the product.

Floor Coating: EPOXY CAST

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APPLICATION

Apply only when air and substrate temperature is close to 20°C. Make sure the working area is dust free. Make sure to prepare a screen to protect the surface once your work is completed since dust, particle and other objects could fall in the epoxy prior to complete cure. This would have a negative impact on the result. If porous, the surface needs to be sealed by brushing or rolling the Epoxy Cast or Chem 100 Natural product in a thin layer. Once the seal coat is tacky you can start the pouring process. Sealing the substrate is critical since the surface's pores could create bubbles. Once sealed, the product can be poured on the surface. The product can also be gently heated to prevent the entrapment of bubbles.

MIXING

Mix three parts of A and one part of B together at low speed in a separate container. If the ratio is not respected, the product might not cure. The mixing container must be clean and free of any outside particle. Mix thoroughly for three/four minutes. Avoid mixing too fast in order to avoid the entrapping of air in the product. Larger quantities will require longer mixing times. Make sure to mix until the appearance of the product becomes even in the container. No cloudy or milky appearance should remain. Never mix more than one gallon at the time. Lesser quantities are recommended for beginners. Mix only the necessary quantity to be used. If drops of unmixed material falls on the surface of your work, it will affect the curing and the look of the finished product since those drops will not properly react with their counterparts.

CLEAN UP

Cured product may be disposed of without

restriction. Excess liquid A and B material should be mixed together and allowed to cure, then disposed of in the normal manner. Product may be disposed in accordance with provincial and federal regulations. Uncured material can be removed with proper solvent. Follow the solvent manufacturer instructions for use and warnings.

LIMITATIONS

The curing time of this product will depend on thickness and overall volume poured. Curing times can differ significantly depending on the quantity poured at once and the shape of the volume poured. If the overall volume poured at once is too large, an exothermic reaction will occur. An exothermic reaction can create unwanted events such as an uneven surface, an amber color or even heavy smoke. It is also recommended to apply the product when room temperature is stable (close to 20 degrees). If room temperature is too high, the product will create an exothermic reaction. If applied at low temperature, the product might not cure properly. We strongly recommend performing tests prior using the product. Heating the product to prevent bubbling could also create an exothermic reaction. Requires a dry substrate. This product should not be applied to substrates that show high levels of moisture/humidity. Moisture content of the substrate must be <4% prior to application. Not suited for exterior applications. Chemtec stands behind the quality of its products. However, Chemtec cannot guarantee results since Chemtec has no control over surface preparation, operating conditions and application procedures. Clients are solely responsible to test Chemtec products to determine if they perform as expected. Contact Chemtec for further information regarding the limitations of this product.

AVAILABLE COLORS

Clear

Refer to the most recent Material Safety Data Sheet prior using this product



TECHNICAL DATA SHEET

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