

RTE – 100 CASTING RESIN

CASTING RESIN

100% Solids, Crystal Clear Casting Epoxy

Description

The CASTING RESIN is a two-component epoxy floor coating system which is VOC-free, 100% solids and odor free. This product can be poured at very thick levels (1 ¾ inch or more) while keeping a crystal-clear look. It can be poured at thicker levels depending on the volume sought. 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.

Uses

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

Advantages

- + Excellent UV resistance
- + Crystal clear
- + Can be poured at very thick levels
- + Ultra-low viscosity, very nice glossy finish
- + Environment friendly (100% solids, VOC-free and no solvent)
- + Odor free
- + Easy application with ultra-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		
Working Time	5 hours	20°C and 55% rel. hum
1 ¾ inch (Tack Free)	42 hours	20°C and 55% rel. hum
15 mils (Tack Free)	42 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°C). 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 bubbling but could trigger an exothermic reaction (refer to product Limitations section).

Mixing

Mix two parts of A and one part of B together 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.

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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 final result.

If porous, the surface needs to be sealed by brushing or rolling the CASTING RESIN or the 100% SOLIDS EPOXY UV in a thin layer. Once the seal coat is Tack Free you can start the pouring process. For quicker results, use the 100% SOLIDS EPOXY UV to seal the surface. Sealing the substrate is critical since the surface 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.

Clean Up

Excess liquid A and B material should be mixed together and allowed to cure. Cured product may be disposed of without restriction. Uncured material should be stored in a suitable and sealed container and may be disposed in accordance with provincial and federal regulations.

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 smoke. It is also recommended to apply the product when room temperature is stable (close to 20°C). 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. ResinTek stands behind the quality of its products. However, ResinTek cannot guarantee final results since ResinTek has

no control over surface preparation, operating conditions and application procedures. Customers are solely responsible to test ResinTek's products to determine if they perform as expected. In order to meet our strict requirements, we are continuously testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data included in this reference document may not be up to date as of the date of reference. Contact ResinTek 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

ResinTek

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