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Advanced Materials

RenGel® 3260 / Ren® 3260 Casting System

BLUE EPOXY SURFACE COAT/SURFACE CASTING SYSTEM

DESCRIPTION :

RenGel® 3260 (Resin) / Ren® 3260 (Hardener) is a blue, two-component, abrasion-resistant surface coat/surface casting system. This silicon carbide-filled material produces an extremely tough and abrasion-resistant surface. It can hang on a vertical surface or can be cast up to ½ inch thick.

APPLICATIONS :

- Foundry patterns
- Core Boxes
- Potting drill bushings
- Surface requiring an abrasion-resistant material

MIXING INSTRUTIONS :

Reaction Ratio	100R to 9H by weight 100R to 16H by volume

Mixing: Stir each component thoroughly before use. Weigh each component accurately (± 5%) into clean containers. Thoroughly mix resin and hardener together (minimum 3 minutes) scraping container sidewalls, bottom and mixing stick several times to assure a uniform mix.

TYPICAL MIXED PROPERTIES :

Property		**ASTM Test Method**	**Test Values**(1)
Gel time (4 fl. oz.)		D-2471	33 mins.
Color Mixed	Resin	Visual	Blue opaque
	Hardener		Clear amber
Viscosity		D-2393	30,000 cP

(1) Tested @ 77 °F (25 °C)

TYPICAL CURED PROPERTIES :

Property	ASTM Test Method	Test Values[1]
Specific Gravity	D-792	1.90
Cubic inch per pound	D-792	14.6
Hardness (Shore D)	D-2240	88
Ultimate Compressive Strength (psi)	D-695	17,000
Ultimate Flexural Strength (psi)	D-790	9,600
Flexural Modulus	D-790	1.43×10^{6}
Ultimate Tensile Strength (psi)	D-638	6,500
Deflection Temperature (264 psi) (°F)	D-648	138
Coefficient of Thermal Expansion (in/in/°F)	D-3386	2.10×10^{-5}
Shrinkage (in/in) cast Mold# 1	D-2566	0.002

[1] Cure Schedule – 7 days @ 77 °F (25 °C), tested @ 77 °F

NOTE : Typical Properties – These physical properties are reported as typical test values obtained by our test laboratory. If assistance is needed establishing product specifications, please consult with our Quality Control Department.

CURING INSTRUCTIONS :

Although room temperature epoxies will normally set up to a rigid, demoldable state within 24 hours at room temperature (75 °F ± 5 °F), these systems reach their full cure after seven days at room temperature. A full cure can be accelerated by applying heat after the part has set rigid. We recommend a post cure of 150 °F for a minimum of six hours. (Add to this adequate time to bring the part to the post cure temperature). After cure, the part should be cooled at a slow rate so as not t shock the part thermally.

Uniform heat distribution is also required during post cure ; concentrated heat, such as that directed from a lamp, can cause warp. An elevated temperature cure will slightly increase the shrinkage compared to a room temperature cure.

HANDLING :

RenGel® 3260 and Ren® 3260
Work in a well ventilated area and use clean, dry tools for mixing and applying For two component system, combine the resin and hardener according to mix ration. Mix together thoroughly and use immediately after mixing. Material temperature should not be below 65 °F (18 °C) when mixing.

RenGel® 3260
This product may crystallize upon storage. If crystallized, vent and heat to 125 – 145 °F until crystals dissolve. Stir well after product has liquefied.

Stir well before use. This material will separate.

PACKAGING :

This product is available in the following package size(s) :

Small preweighed units - 6 quart Resin with 6 Preweighed Hardener
Pail Units – Pail Resin (60#) with Appropriate Hardener (5.5#)

Please call Customer Service (800-367-8793) for price and availability.

STORAGE :

RenGel® 3260 (Resin) / Ren® 3260 (Hardener) should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). Under these storage conditions, the shelf life is 2 years. The product should not be exposed to direct sunlight.

PRECAUTIONARY STATEMENT :

Huntsman Advanced Materials Americas LLC maintains up–to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!
Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

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IMPORTANT LEGAL NOTICE

Huntsman Advanced Materials warrants only that its products meet the specifications agreed with the user. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications.

The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication.

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