



Product Data

# RenGel™ 3260/Ren® 3260

## 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
- Surfaces requiring an abrasion-resistant material

**MIXING INSTRUCTIONS:** 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 <sup>(1)</sup>
Gel time (4 fl.oz.)	D-2471	33 mins.
Color Resin Hardener	Visual	Blue opaque Clear amber
Viscosity	D-2393	30,000 cP

<sup>(1)</sup>Tested @ 77°F (25°C)

**TYPICAL CURED PROPERTIES:**

Property	ASTM Test Method	Test Values <sup>(1)</sup>
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 x 10 <sup>6</sup>
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 x 10 <sup>-5</sup>
Shrinkage (in/in) Cast Mold #1	D-2566	0.002

<sup>(1)</sup>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 in 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 postcure of 150°F for a minimum of six hours. (Add to this adequate time to bring the part to the postcure temperature.) After cure, the part should be cooled at a slow rate so as not to shock the part thermally.

Uniform heat distribution is also required during postcure; 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.

## **STORAGE/HANDLING INFORMATION:**

### **RenGel 3260 and Ren 3260**

Store at 60-100°F in a dry place. After use tightly reseal.

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 ratio. 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 container and heat to 125-145°F until crystals dissolve. Stir well after product has liquefied.

Stir well before use. This material will separate.

**SHELF LIFE:** Provided materials are stored under the recommended storage conditions in their original containers, they will remain in useable condition for at least one year from date of shipping.

**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.

**SAFETY/HANDLING PRECAUTIONS:** Do not use or handle this product until the Material Safety Data Sheet has been read and understood.

### **RenGel 3260**

**WARNING! COMBUSTIBLE.** Causes eye and skin irritation. May cause allergic skin reaction and respiratory reactions.

Keep away from heat and flame. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Avoid prolonged or repeated contact with skin. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

## **SAFETY/HANDLING PRECAUTIONS** (continued)

### **Ren 3260**

**DANGER!** CORROSIVE – causes skin and eye burns. May cause allergic skin and respiratory reactions.

Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Nuisance dust may be generated when sanding or sawing cured material.

**FIRST AID:** In case of contact with:

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

**Eyes:** Immediately flush with water for at least 15 minutes. Call a physician.

**Ingestion:** If conscious, give plenty of water to drink. Do not induce vomiting. Call a physician.

**Inhalation:** Remove to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

**Other:** Referral to physician is recommended if there is any question about the seriousness of any injury.

**PRECAUTIONARY NOTE:** Thermosetting systems generate heat when curing. The amount of heat and the period of time in which heat is released vary significantly between systems. Additionally, ambient or compound temperature, amount of material mixed, and construction and shape of the mold or container can also be factors in the temperature profile of a mixed system.

In some cases, the thermosetting reaction can be vigorous, generating heat sufficient to cause decomposition of the system with subsequent liberation of large volumes of acrid smoke.

A good rule of thumb is never mix more material than can be applied during the stated pot life or gel time. Also take care when using materials in applications other than stated on the Product Data Sheet, i.e., a laminating resin for casting.

Please feel welcome to call our Product Information Department or your local Ren representative for instructions before you start your job.

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