

Advanced Materials

RenGel® 1129 / Ren® 1129



ROOM TEMPERATURE CURE SURFACE COAT

DESCRIPTION:

RenGel[®] 1129 (Resin) / Ren[®] 1129 (Hardener), a white, room temperature curing, thixotropic, epoxy surface coat, was designed especially for use with the RenLam[®] RP 1720 laminating system.

ADVANTAGES:

- Easy to mix and apply
- Good vertical hang-up
- Impact resistant
- Excellent surface detail duplication
- Low odor
- Automative approved

MIXING INSTRUTIONS:

Reaction Ratio 100R to 20H by weight

100R to 26H 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\''
Gel time		D-2471	20 mins.
Color Mixed	Resin	Visual	White
	Hardener		Amber
	Mixed		White
Mixed Sag		D-2730	Pass 1/16"
-			Fail 1/8"
Specific gravity	Resin		1.47
	Hardener		1.12
(1) Tested @ 77	' °F (25 °C)		



TYPICAL CURED PROPERTIES:

Property	ASTM Test Method	Test Values ⁽¹⁾
Specific Gravity	D-792	1.39
Cubic inch per pound	D-792	19.9
Hardness (Shore D)	D-2240	85
Ultimate Compressive Strength (psi)	D-695	13,900
Ultimate Flexural Strength (psi)	D-790	15,500
Flexural Modulus (psi)	D-790	0.486 x 10 ⁶
Ultimate Tensile Strength (psi)	D-638	4,880
Izod Impact (ft-lb/in)	D-256	0.243
Tg per DMA (°F)	D-4065	156
Deflection Temperature (°F) @ 264 psi	D-648	117
Coefficient of Thermal Expansion (in/in/°F)	D-3386	3.16 x 10 ⁻⁵
Shrinkage (in/in) cast Mold# 0	D-2566	0.0016

⁽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® 1129 and Ren® 1129

Stir well before use. This material will separate.

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.





PACKAGING:

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

Preweighed kits, 6 per kit (16.44# total) or Pail of resin at 45# and hardener pails at 9#

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

STORAGE:

RenGel[®] 1129 (Resin) / Ren[®] 1129 (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 <u>prior to</u> using this material.

First Aid!

Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY





IMPORTANT LEGAL NOTICE

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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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