

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
- Automotive approved

MIXING INSTRUCTIONS :

Reaction Ratio 100R to 20H by weight
 100R to 26H by volume

Mixing: Stir each component thoroughly before use. Weigh each component accurately (\pm 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		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 to 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.

STORAGE / HANDLING INFORMATION :

RenGel® 1129 and Ren® 1129

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

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.

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) :

Prewriteh 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.

SAFETY / HANDLING PRECAUTIONS :

Do not use or handle this product until the Material Safety Data Sheet has been read and understood.

RenGel® 1129

WARNING Causes eye and skin irritation. May cause allergic skin reaction.

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.

Ren® 1129

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, generation 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.

Caution To protect against any potential health risks presented by our products, the use of proper personal protective equipment (PPE) is recommended. Eye and skin protection is normally advised. Respiratory protection may be needed if mechanical ventilation is not available or is insufficient to remove vapors. For detailed PPE recommendations and exposure control options consult the product MSDS or a Huntsman EHS representative.

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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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