



Product Data

Ren[®]
Professional Tooling Line

RenGel[™] 8026
Ren[®] 8026 Slow
Ren[®] 8026 Medium

ELEVATED-TEMPERATURE PERFORMANCE GENERAL-PURPOSE SURFACE COATS

DESCRIPTION: RenGel 8026(Resin) with Ren 8026 Slow or Medium(Hardener) is an aluminum-filled, sag-resistant, easy-to-apply surface coat system. RenGel 8026 is useful for continuous hot-conditions duty to 300°F (150°C) with intermittent use to 350°F (177°C). This system mixes easily and applies well by brushing.

A choice of two hardeners is available to offer a broad range of tack-times for large to small tools.

MIX RATIO:		By Weight:	By Volume:
	Resin to Slow Hardener	100 to 10	100 to 14
	Resin to Medium Hardener	100 to 10	100 to 14

TYPICAL HANDLING PROPERTIES*:	<u>ASTM Method</u>	<u>Mixed, Slow</u>	<u>Mixed, Medium</u>
Color	Visual	Gray	Gray
Sag Resistance	D-2730-68	Pass 1/16" Fail 1/8"	Pass 1/16" Fail 1/8"
Gel Time, 4 fl. oz, minutes	D-2471	50-60	30-40
Tack Time, hours		3	2

NOTE: 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 Product Management Department.

TYPICAL CURED PROPERTIES*:	<u>ASTM Method</u>	<u>Slow System</u>	<u>Medium System</u>
Density, lb./ft ³ (g/cm ³)	D-792	89 (1.43)	89 (1.43)
Cubic Inch per Pound		19.4	19.4
Hardness, Shore D	D-2240	90	90
Ultimate Flexural Strength, psi	D-790	8,500	8,000
Ultimate Tensile Strength, psi	D-638	5,500	4,000
Tg by DMA, E", °F(°C)	D-4065	310 (154)	310 (154)
Ultimate Compressive Strength, psi	D-695	27,000	27,000
Coefficient of Thermal Expansion	D-3386		
		-22 to 86°F, in/in/°F	32 x 10 ⁻⁶
		-30 to 30°C, in/in/°C	58 x 10 ⁻⁶

* Tested @ 77°F (25°C) unless otherwise noted.

RECOMMENDED CURE SCHEDULE:

- | | | |
|----|---------------------------|-------------|
| 1. | 77°F (25°C) at 1 hour, | Plus |
| | 150°F (66°C) at 2 hours, | Plus |
| | 200°F (93°C) at 2 hours, | Plus |
| | 250°F (121°C) at 2 hours, | Plus |
| | 300°F (149°C) at 2 hours | |

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

RenGel 8026

DANGER! Causes severe skin irritation. Causes eye irritation. May cause skin burns and allergic skin reaction. Avoid contact with eyes, skin, or clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Ren 8026 (Medium and Slow)

DANGER! CORROSIVE. Causes skin and eye burns. Can cause allergic respiratory reaction and allergic skin reaction. Can be harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mist. Keep container closed when not in use. 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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