

Advanced Materials**RenGel[®] 4026R Resin
Ren[®] 1501H Hardener****EPOXY SURFACE COAT**

- Heat Resistant
- Aluminum Filled
- Non-MDA Material

DESCRIPTION :

RenGel[®] 4026R resin/Ren[®] 1501H hardener epoxy surface coat is a thixotropic, aluminum-filled, heat-resistant system that provides for good surface duplication and sag resistance. RenGel[®] 4026R resin/Ren[®] 1501H hardener epoxy surface coat is suited for continual use at temperatures ranging from 77°F (25°C) to 300°F (149°C). Intermittent use is possible in the 300°F (149°C) to 350°F (177°C) range. This material is easy to mix and applies well with a brush. Ren[®] 1501H hardener is non-crystallizing, non-staining and contains no MDA.

TYPICAL PROPERTIES AS RECEIVED :

Property	4026R	1501H	4026R/1501H	Test Method
Color	Gray	Amber	Gray	Visual
Specific Gravity	1.44 - 1.53	1.01 - 1.10	--	ASTM D-1963
Sag Resistance			Pass 1/16 in.	ASTM-D-2730-68
			Fail 1/8 in.	
Gel time, 4 fl. oz. at 77°F (25°C), min.	--	--	30 - 40	ASTM-D-2471
Shelf life at 77°F (25°C), unopened, months	12	12	--	--

NOTE: These physical properties are reported as typical test values obtained by Huntsman Advanced Materials

test laboratory. If assistance is needed in establishing product specifications, please consult with the Product Management Department.

MIX RATIO	By Weight	By Volume
Resin to Hardener	100 to 10	100 to 14

CURE SCHEDULE :

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

TYPICAL CURED PROPERTIES (Not for specification purposes)

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

	<u>Cure Value</u>	<u>Test-Method</u>
Density, lb./ft ³ (g/cm ³)	89 (1.43)	ASTM D-792
Cubic Inch per Pound	19.4	ASTM D-792
Durometer hardness, Shore D	90	ASTM-D-2240
Ultimate Flexural Strength, at 77°F (25°C), psi (MPa)	8,000 (55.1)	ASTM-D-790
Ultimate Tensile Strength, at 77°F (25°C), psi (MPa)	4,000 (27.6)	ASTM D-638
Tg by DMA, E'', °F (°C)	310 (154)	ASTM D-4065
Ultimate Compressive Strength, at 77°F (25°C), psi (MPa)	27,000 (186)	ASTM D-695
Coefficient of Thermal Expansion		ASTM D-3386
86°F to 212°F, in./in./°F	32.0 x 10 ⁻⁶	
30°C to 100°C, in./in./°C	57.6 x 10 ⁻⁶	
Linear Shrinkage, in./in. (mm/mm)	0.005 (0.005)*	ASTM D-2566

* Molds are half-round steel, 10-inches long, 0.5 inches deep.

STORAGE/ SHELF LIFE :

Epoxy resins and hardeners should be stored in a dry place in their original, sealed containers at temperatures from 60-100°F (16-38°C). Material temperatures should be above 65°F (18°C) when mixing. After use, tightly reseal containers.

Under these conditions, epoxy resins and hardeners will remain useable for 12 months from date of shipping from Huntsman.

CAUTION :

Huntsman Advanced Materials Americas Inc. 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. Copies of the latest MSDS may be requested by calling our customer service group at 800-367-8793 or emailing your request to adhesives_group@huntsman.com.

FIRST AID !

Eyes and skin : Flush eyes with water for 15 minutes. Contact a physician if irritation persists. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

Inhalation : Remove subject to fresh air.

Swallowing : Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

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

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