

**Advanced Materials****RenGel<sup>®</sup> 4026R Resin  
Ren<sup>®</sup> 1501H Hardener****EPOXY SURFACE COAT**

- Heat Resistant
- Aluminum Filled
- Non-MDA Material

**DESCRIPTION :**

RenGel<sup>®</sup> 4026R resin/Ren<sup>®</sup> 1501H hardener epoxy surface coat is a thixotropic, aluminum-filled, heat-resistant system that provides for good surface duplication and sag resistance. RenGel<sup>®</sup> 4026R resin/Ren<sup>®</sup> 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<sup>®</sup> 1501H hardener is non-crystallizing, non-staining and contains no MDA.

**TYPICAL PROPERTIES AS RECEIVED :**

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

<b>MIX RATIO</b>	<b>By Weight</b>	<b>By Volume</b>
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).

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**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 <sup>3</sup> (g/cm <sup>3</sup> )	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 <sup>-6</sup>	
30°C to 100°C, in./in./°C	57.6 x 10 <sup>-6</sup>	
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.

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**STORAGE :**

RenGel<sup>®</sup> 4026R resin/Ren<sup>®</sup> 1501H 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.

Material temperatures should be above 18°C (65°F) when mixing.

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**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 prior to using this material.

**First Aid!**

Refer to MSDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN  
FOR PROFESSIONAL**

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Main Offices :  
**Huntsman Corporation**  
10003 Woodloch Forest Dr.  
The Woodlands  
Texas 77380  
(281) 719-6000

**Huntsman Advanced Technology  
Center**  
8600 Gosling Rd.  
The Woodlands  
Texas 77381  
(281) 719-7400