

**Advanced Materials****RenGel<sup>®</sup> 4026 / Ren<sup>®</sup> 1500 Surface Coat System****EPOXY SURFACE COAT**

- Heat Resistant
- Aluminum Filled
- Non-MDA Material

**DESCRIPTION :**

RenGel<sup>®</sup> 4026 (Resin) / Ren<sup>®</sup> 1500 (Hardener) epoxy surface coat is a thixotropic, aluminum-filled, heat-resistant system that provides for good surface duplication and sag resistance. RenGel<sup>®</sup> 4026 / Ren<sup>®</sup> 1500 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> 1500 hardener is non-crystallizing, non-staining and contains no MDA.

**TYPICAL PROPERTIES:**

Property	Test Method	Test Values <sup>(1)</sup>
Gel Time (4 fl. oz.)	ASTM-D-2471	50 – 60 min.
Color	Visual	Gray
RenGel <sup>®</sup> 4026		Amber
Ren <sup>®</sup> 1500		Gray
Mixed		Gray
Mixed Sag Resistance	ASTM-D-2730	Pass 1/16 in. Fail 1/8 in.

<sup>(1)</sup> Tested @ 77 °F (25 °C)

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
RenGel <sup>®</sup> 177-144 : Ren <sup>®</sup> 1500	100:10	100:14

**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:**

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)	8,500 (58.6)	ASTM-D-790
Ultimate Tensile Strength, at 77°F (25°C), psi (MPa)	5,500 (37.9)	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	37.0 x 10 <sup>-6</sup>	
30°C to 100°C, in./in./°C	66.6 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.

**HANDLING :**

Material temperatures should be above 65°F (18°C) when mixing. After use, tightly reseal containers.

**STORAGE :**RenGel<sup>®</sup> 4026 and Ren<sup>®</sup> 1500 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 prior to 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**

Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. ("Huntsman"). The following supercedes Buyer's documents.

Huntsman warrants that at the time and place of delivery all Products sold to Buyer shall conform to the specifications provided to Buyer by Huntsman.

While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN (EXCEPT AS SET FORTH ABOVE REGARDING CONFORMANCE WITH SPECIFICATIONS PROVIDED TO BUYER BY HUNTSMAN) IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES.

No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. The Buyer should obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, and should comply with all applicable governmental laws, regulations and standards relating to the handling, use, storage, distribution and disposal of, and exposure to the Product. Buyer shall also take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product, and the containers or equipment in which the Product may be handled, shipped or stored.

Ren and RenGel are registered trademarks of Huntsman LLC or an affiliate thereof in one or more countries, but not all countries.

© 2010 Huntsman Advanced Materials Americas Inc.

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