

Advanced Materials**RenGel[®] SW 5200 / Ren[®] HY 5213**

HIGH HEAT RESISTANT EPOXY SYSTEM

KEY PROPERTIES

- Easy to apply
- Very high temperature resistance
- Does not drain off vertical surface
- Partial cure at room temperature completed with post cure indicated

APPLICATIONS

- Pre-preg tools
- In combination with an appropriate laminating system to construct high temperature tools

PRODUCT DATA

Property	Unit	RenGel [®] SW 5200	Ren [®] HY 5213
Appearance Colour	Visual	Paste Black	Liquid Yellow to Brown
Viscosity at 25°C (ISO 2555)	mPas	Thixotropic	500 - 1000**
Density	g/cm ³	1.65	1.01
Epoxy equivalent	Eq/kg	4.30 - 4.60**	

*** Specified data are on a regular basis analysed. Data which is described in this document as 'typical' is not analysed on a regular basis and is given for information purpose only. Data values are not guaranteed or warranted unless if specifically mentioned.*

TYPICAL SYSTEM DATA**PROCESSING**

Mix ratio	Parts by weight
RenGel [®] SW 5200	100
Ren [®] HY 5213	16

Mix the two components thoroughly in the ratio indicated.
Apply in thin layers with a brush or spatula, wait until gelcoat has gelled, but ensure that it is still slightly tacky before proceeding.
Post-curing will improve final properties.

PROPERTIES

Resin/Hardener mix:	Volume	Unit	RenGel® SW 5200 Ren® HY 5213
Appearance			Black
Pot life at 25°C	250ml	h	4.5
Demoulding time		h	7 days at RT or 14 hours at 40°C

After cure: 14h gradually to 180°C

Density	ISO 1183	g/cm ³	1.6
Hardness	ISO 868	Shore D	90
Tg	DSC	°C	185
Abrasion	Taber	mm ³ /100U	45-50

STORAGE

Provided that RenGel® SW 5200 and Ren® HY 5213 are stored in a dry place in their original, properly closed containers at the storage temperatures mentioned in the MSDS they will have the shelf lives indicated on the labels. Partly emptied containers should be closed immediately after use.

**WORKING
CONDITION**

The products should be handled when in the temperature range of 20 - 25°C.

PACKAGING

System	RenGel® SW 5200	Ren® HY 5213
Quantity and Weight	2 x 5kg	20 kg
Quantity and Weight	200 kg	165 kg

**HANDLING
PRECAUTIONS****Caution**

Our products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. These precautions are described in greater detail in the Material Safety Data sheets for the individual products and should be referred to for fuller information.

Huntsman Advanced Materials

(Switzerland) GmbH
Klybeckstrasse 200
4057 Basel
Switzerland

Tel: +41 (0)61 299 11 11
Fax: +41 (0)61 299 11 12

www.huntsman.com/advanced_materials
Email: advanced_materials@huntsman.com



Huntsman Advanced Materials warrants only that its products meet the specifications agreed with the user. Specified data are analysed on a regular basis. Data which is described in this document as 'typical' or 'guideline' is not analysed on a regular basis and is given for information purposes only. Data values are not guaranteed or warranted unless if specifically mentioned. The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication. While all the information and recommendations in this publication are, to the best of Huntsman Advanced Material's knowledge, information and belief, accurate at the date of publication, nothing herein is to be construed as a warranty, whether express or implied, including but without limitation, as to merchantability or fitness for a particular purpose. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. The behaviour of the products referred to in this publication in manufacturing processes and their suitability in any given end-use environment are dependent upon various conditions such as chemical compatibility, temperature, and other variables, which are not known to Huntsman Advanced Materials. It is the responsibility of the user to evaluate the manufacturing circumstances and the final product under actual end-use requirements and to adequately advise and warn purchasers and users thereof. Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Advanced Materials containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards. Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent on manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users. Except where explicitly agreed otherwise, the sale of products referred to in this publication is subject to the general terms and conditions of sale of Huntsman Advanced Materials LLC or of its affiliated companies including without limitation, Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., Huntsman Advanced Materials (UAE) FZE, Huntsman Advanced Materials (Guangdong) Company Limited, and Huntsman Advanced Materials (Hong Kong) Ltd. Huntsman Advanced Materials is an international business unit of Huntsman Corporation. Huntsman Advanced Materials trades through Huntsman affiliated companies in different countries including but not limited to Huntsman Advanced Materials LLC in the USA and Huntsman Advanced Materials (Europe) BVBA in Europe.

All trademarks mentioned are either property of or licensed to Huntsman Corporation or an affiliate thereof in one or more, but not all, countries. Copyright © 2014 Huntsman Corporation or an affiliate thereof. All rights reserved.