

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	mPas	Thixotropic	250-500
Density	g/cm ³	1.65	0.95-1.05

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	SW 5200 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

Store SW 5200 at a temperature between 2 and 8°C, in its original container. Quantities of materials for immediate use (up to 5 days) can be held at room temperature without risk of deterioration.

Store HY 5213 in a closed container between 6 and 28°C.

**WORKING
CONDITION**

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

PACKAGING

System	SW 5200	HY 5213
Quantity and Weight	2 x 5kg	TBD

**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.

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