

# **Gelcoat Resin**

# RenGel<sup>™</sup> SW 5155 / Ren<sup>®</sup> HY 5159 Filled epoxy system with enhanced heat resistance

# **Key properties**

- · Easy to apply with brush or spatula
- · Good edge coverage
- · Can be pre-cured at room temperature

#### **Applications**

- Construction of vacuum deep-drawing, foam and laminate lay-up tools
- · Ancillary mould and fixtures

#### **Product data**

Property	Unit	RenGel SW 5155	Ren HY 5159
Appearance Colour	visual	high-viscosity liquid grey	clear liquid pale yellow
Viscosity at 25°C	mPa s	170,000 – 240,000	150 - 250
Density	g/cm <sup>3</sup>	1.42	0.98

# **Processing**

Mix ratio	Parts by weight	
RenGel SW 5155	100	
Ren HY 5159	10	

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 5155 HY 5159
Appearance			grey
Pot life at 25°C	250 ml	min	30-45
Demoulding time		h	24

#### After cure: 7 days at RT or 14 hours at 40 °C

Density	ISO 1183	g/cm <sup>3</sup>	1.34
Hardness	ISO 868	Shore D	88
Deflection temperature	ISO 75	°C	120-125
Abrasion	Taber	mg/100u	70-75

#### **Storage**

The resin and hardeners described in this instruction sheet have the shelf lives shown provided they are stored at 6 - 28°C in a dry place and sealed containers, preferably those in which they are supplied.

# Working condition

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

#### **Packaging**

System	SW 5155	HY 5159
Quantity and Weight	10 kg	6 x 1 kg
Quantity and Weight		6 x 0.8 kg
Quantity and Weight		6 x 240 gr.

# Handling precautions

#### Caution

Huntsman Advanced Materials 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 publication No. 24264/3/e Hygienic Precautions For Handling Plastics Products and in the Huntsman Advanced Materials Material Safety Data sheets for the individual products. These publications are available on request and should be referred to for fuller information.

#### Vantico Limited Adhesives and Tooling

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