

Advanced Materials**RenGel[®] P 99 / Ren[®] HY 5159****GELCOAT RESIN
THIXOTROPIC TWO COMPONENT EPOXY SYSTEM****KEY
PROPERTIES**

- Universal coupling coat for the build-up of moulds and tools with different plastics (EP/PU/PH/VE)
- The gelled surface layer made out of Epoxy, Polyurethane, Polyurea or Polyester resins can be backed up with a choice of Epoxy or Polyurethane systems (e.g. light multi-purpose laminating paste/Mass Casting Option 6). We recommend initial trials regarding interlayer adhesions with the chosen material.
- **Excellent layer adhesion and heat resistance up to 120°C**

APPLICATIONS

- Coupling coat between gelcoat and backing
- Production of moulds, tools and auxiliaries with different substrates

PRODUCT DATA

Property	Unit	RenGel [®] P 99	Ren [®] HY 5159
Appearance Colour	visual	Smooth paste Grey	Clear liquid Pale yellow
Viscosity at 25°C	mPas	Thixotropic	150-250
Density at 20°C (ISO2811-2)	g/cm ³	1.45 - 1.55**	0.98

*** 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 DATAS**PROCESSING**

Mix ratio	Parts by weight
RenGel [®] P 99	100
Ren [®] HY 5159	11

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	P 99 HY 5159
Appearance			Grey
Pot life at 25°C	250 ml	min	30
Demoulding time		h	12

After cure: 14 hours gradually to 100°C

Density	ISO 1183	g/cm ³	1.5
Hardness	ISO 868	Shore D	90
Deflection temperature	ISO 75	°C	120
Abrasion	Taber	mm ³ /100U	Coupling Coat

STORAGE

Provided that RenGel[®] P99 and Ren[®] HY 5159 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	P 99	HY 5159
Quantity and Weight	4 x 2.2kg	6 x 240gr
Quantity and Weight	12 x 220gr	6 x 24gr

**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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