



Laminating Resin

RenLam[™] LY 113 / Ren[®] HY 97

Low viscosity Laminating system with good thermal performance

Key properties

- Very low viscosity
- Excellent room temperature strength at demould
- Excellent wetting out properties
- Elevated temperature resistance, up to 120°C

Applications

- Structural and special applications
- Wet lay-up laminating
- Resin infusion technique
- Laminated tools for RTM or RIM
- Composite components using glass, carbon or Aramid ply

Product data

Property	Unit	RenLam LY 113	Ren HY 97
Appearance Colour	visual	Clear liquid	Clear liquid
Viscosity at 25°C	mPas	580	20
Density	g/cm ³	1.16	0.92

Processing

Mix ratio	Parts by weight
RenLam LY 113	100
Ren HY 97	32

Mix the two components thoroughly in the ratio indicated, then impregnate each layer of cloth as it is laid up to construct the laminate.
Post-curing will improve final properties.

Properties

Resin/Hardener mix:	Volume	Unit	LY 113 HY 97
Appearance			Yellowish
Viscosity at 25°C		m Pa s	300
Pot life at 25°C	500 ml	min	80
Demoulding time		h	24

After cure: 14h gradually up to 120°C

Density	ISO 1183	g/cm ³	1.1
Deflection temperature	ISO 75	°C	120

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 conditions

The product should be used when in the temperature range 18-25°C.

Packaging

System	LY 113	HY 97
Quantity and Weight	1 x 20kg	1 x 6.4kg
Quantity and Weight	1 x 5kg	4 x 1.6kg

Handling precautions

Caution

Vantico 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 Vantico publication No. 24264/3/e Hygienic precautions for handling plastics products of Vantico and in the Vantico 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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