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Advanced Materials

RenLam© LV 06 / Ren© HY 06

LAMINATING PASTE
GLASS FIBRE REINFORCED EPOXY PASTE

KEY PROPERTIES

- **Can be used to 15mm thickness**
- **Shorter process time compared with wet lay-up laminating**
- **Easy to mix and apply by hand**

APPLICATIONS

- Laminated shells
- Backing structures for general tool making

PRODUCT DATA

Property	Unit	RenLam© LV 06	Ren© HY 06
Appearance Colour	visual	Paste Pale grey	Liquid Blue
Density at 20°C	g/cm^3	1.1	0.96 - 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 purposes only. Data values are not guaranteed or warranted unless if specifically mentioned.*

TYPICAL SYSTEM DATA

PROCESSING

Mix ratio	Parts by weight
RenLam© LV 06	100
Ren© HY 06	15

Mix the two components thoroughly in the ratio indicated until the mixture has a homogenous colour. Mixing can be done manually or by using a planetary/kneader/dough mixer. Do not use a mixer on a drilling machine.
To produce layers of controlled thickness, roll out between spacers onto polythene, and apply as a layer. Post-curing will improve final properties.

PROPERTIES

Resin/Hardener mix:	Volume	Unit	LV 06 HY 06
Appearance			Grey-blue
Pot life at 25ºC	**1000 ml**	min	90
Max. Layer thickness		mm	15
Demoulding time		h	16

After cure: 7 days at RT or 14 hours at 60 °C

Density	**ISO 1183**	g/cm^3	1.1
Coefficient of thermal expansion	**ISO 11359**	$10^{-6} k^{-1}$	32
Deflection temperature	**ISO 75**	°C	70
Flexural strength	**ISO 178**	MPa	55
Linear shrinkage		mm/m	1

STORAGE

Provided that RenLam® LV 06 and Ren® HY 06 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 CONDITIONS

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

PACKAGING

System	LV 06	HY 06
Quantity and Weight	1 x 15 kg	4 x 2.25 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.

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