

Modelling Paste

RenPaste[®] SV 36 / Ren[®] HV 36

Manually mixed and applied epoxy resin paste

Key properties

- Low density, easily machinable formulation
- Can be mixed and applied without the need for specialist equipment
- Applied in layers up to 40mm
- Very good adhesion
- No pin holes
- Can be worked with patternmakers' tools

Applications

- Light models
- Light patterns
- Lightweight filling and repairs

Product data

Property	Unit	RenPaste SV 36	Ren HV 36
Appearance Colour	visual	Dry paste White	Paste Brown
Density	g/cm ³	0.5	0.5

Processing

Mix ratio	Parts by weight	Parts by volume
RenPaste SV 36	100	100
Ren HV 36	100	100

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. To produce layers of controlled thickness, roll out between spacers onto polythene and apply as a pre-form. Post-curing will improve final properties.

Properties

Resin/Hardener mix:	Volume	Unit	SV 36 HV 36
Appearance			Brown
Pot life at 25°C	1000 ml	min	60
Max. Layer thickness		mm	40
Demoulding time		h	12

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

Density	ISO 1183	g/cm ³	0.5
Hardness	ISO 868	Shore D	55-60
Coefficient of thermal expansion	ISO 11359	10 ⁻⁶ k ⁻¹	40
Deflection temperature	ISO 75	°C	55
Compressive strength	ISO 604	MPa	30
Compressive modulus	ISO 604	MPa	2,000
Flexural strength	ISO 178	MPa	18
Linear shrinkage		mm/m	0.5

Storage

The resin and hardeners described in this instruction sheet have the shelf lives shown, provided they are stored at 18 - 25°C in a dry place and in sealed containers, preferably those in which they are supplied.

Working condition

Packaging

System	SV 36	HV 36
Quantity and Weight	1 x 10 kg	1 x 10 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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