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Advanced Materials

RenGel© SV 410 / Ren© HY 2404

GELCOAT RESIN
WHITE, THIXOTROPIC, FILLED EPOXY SYSTEM

KEY PROPERTIES

- **Easy to apply with brush or spatula**
- **Cures rapidly at room temperature**
- **Hard, abrasion-resistant but polishable surfaces showing good chemical resistance**
- **Can be worked by cutting or grinding**

APPLICATIONS

- Production of jigs
- Foundry patterns
- Negative moulds
- Laminating moulds
- Working models for the ceramics industry

PRODUCT DATA

Property	Unit	RenGel© SV 410	Ren© HY 2404
Appearance Colour	**visual**	paste white	transparent liquid yellow
Viscosity at 25ºC (ISO 2555)	**mPa s**	165'000 - 390'000**	3400 -5000**
Density	**g/cm^3**	1.4 - 1.45	1.05 - 1.08

*** 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© SV 410	100
Ren© HY 2404	14

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.

TYPICAL PROPERTIES

Resin/Hardener mix:	Volume	Unit	SV 410 HY 2404
Appearance			white, thixotropic paste
Pot life at 25ºC	**250 ml**	min	20 - 25
Demoulding time		h	6 - 8

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

Density	**ISO 1183**	g/cm^3	1.4
Hardness	**ISO 868**	Shore D	85 - 90
Deflection temperature	**ISO 75**	°C	60 - 70
Abrasion	**Taber**	mg/100u	75-80

STORAGE

Provided that RenGel® SV 410 and Ren® HY 2404 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	SV 410	HY 2404
Quantity and Weight	2 x 7.15 kg	6 x 1 kg
Quantity and Weight	6 x 360 gr.	6 x 50 gr.

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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