

RESOLCOAT VI 5090

Vinylester Gelcoat Compatible Epoxy

DESCRIPTION

The VI5090 is a high resistance Gelcoat formulated on a Vinylester resin base. Its main characteristics are a very high resistance to solvents and chemical agents, which makes it an excellent product for tooling, but also its high TG of 105 degrees makes it a product of choice for Pre-preg parts

For tooling, the VI 5090 enables the mould to have a permanent high gloss aspect resisting to many cycles between waxing/polishing. Thanks to its low dilatation module when exposed to temperature and its flexibility, the VI5090 is not prone to cracks and the appearance of mat zones.

The VI 5090 comes in a Neutral (transparent) Color but can be delivered in any RAL color or with RAL pigments

APPLICATION

Application with spray gun or brush are both possible.

In order to spray the VI 5090, it is possible to dilute it with styrene up to 5% and Acetone up to 3%. To avoid any risks of porosity, we recommend to catalyze the VI5090 with Resoltech MEKP (2 to 2,5%). As always when using a product in a new application, it is always recommended to test the system on a small surface of the same characteristics of the main surface to be sprayed or painted with rollers or brushes.

PHYSICAL CHARACTERISTICS IN LIQUID STATE AT 23° C

Properties	Spray Gun application	Brush & Roller application	Units	Norms
Viscosity				
* Brookfield RVF sp. 4/4 rpm	9000 - 15000	14000 - 20000	mPa.s (cP)	CQP/C/001
* Cone & Plate	220 - 300	750 - 900	mPa.s (cP)	CQP/C/013
Density	1,1 - 1,2	1,1 - 1,2	g/cm3	CQP/C/003
Flash Point	34	34	°C	ASTM D 3278 - 95
Gel time :				
1,5 % (MEKP)	10 - 25	10 - 25	minutes	CQP/C/014
2 % (MEKP)	25 - 45	25 - 45	minutes	CQP/C/014
Shelf life of the product is 3 month after production date	3	3	month	-

PHYSICAL & MECHANICAL CHARACTERISTICS ONCE POLIMERIZED

Properties	Values	Unit	Norms
Tensile Strength	60	MPa	ISO 527 - 1/2 - 1993
Flexural Modulus	3500	MPa	ISO 527 - 1/2 - 1993
Elongation at Break	2.0	%	ISO 527 - 1/2 - 1993
HDT	105	° C	ISO 75 - 1/2 - 1993
Barcol Hardness	35	934-1	ASTM D 2583 - 87

Health & Safety : It is advised to follow basic rules such as avoiding skin contact, wear masks when producing dust. Please read our standard health and safety sheet for more information. In case of eye contamination, wash with water and seek medical advice.

The data provided in this document is the result of tests and is believed to be accurate. We do not accept any responsibility over the mishandling of these products and our liability is limited strictly to the value of the products we manufacture and supply.