TECHNICAL DATA SHEET

RV2015 – VINYLESTER RESIN FOR SKINCOAT

RV2015 is a pre-accelerated, thixotropic vinylester resin to be used as a thin layer, in the creation of the mold and for the construction of boats or other composite parts.
Laminated in a thin layer - skincoat - it allows to: provide hardness and heat resistance necessary for the realization of a durable mold that requires reduced maintenance, increase the resistance to breakage of the gelcoat caused by flexing and impact of the laminate, increase the resistance to osmosis, and allows to obtain composite parts with excellent hardness.
When high thermo-mechanical properties are required in the finished product, it can also be used as a resin in the entire lamination process.

GENERAL INSTRUCTIONS FOR USE

RV2015 can be applied by manual or spray lamination.
Catalysis 1.0% - 2.0% of the total weight of the resin with CT21 hardener (Methylethylketone Peroxide / Butanox M50).
The best results are obtained by working at temperatures between 18°C and 32°C and with a relative humidity rate between 40% and 90%.
It is recommended to maintain constant application conditions in order to have constant viscosity and gel times.
The product can be used for 6 months if stored in the original packaging away from heat sources and not exposed to temperatures above 20°C.

TYPICAL SPECIFICATIONS OF THE LIQUID PRODUCT

Tests made at 23°C	Value	Unit of measure	Method
Viscosity (Brookfield, Spindle LV#3, 60rpm)	800-900	cP	IMIA-10
Styrene content	40-44	%	IMIA-03
Reactivity (100g product + 1,25g CT21/MEKP 50%)	30 ± 5	min	IMIA-15
Total cure time	45 ± 5	min	IMIA-15
Exothermic peak	140 ± 5	°C	IMIA-15

TYPICAL CHARACTERISTICS OF THE HARDENED PRODUCT (*)

Tests made at 23°C	Value	Unit of measure	Method
Tensile strength	78-82	MPa	ISO 527-1
Tensile modulus	3,8-4,2	GPa	ISO 527-1
Tensile elongation	2,5-2,9	%	ISO 527-1
Flexural strength	102-105	MPa	ISO 178
Flexural modulus	4-4,2	GPa	ISO 178
Thermo-mechanical resistance: HDT	100 ± 5	°C	IMIA-50

(*) on specimens hardened 24 hours at 23 ° C and post hardened 3 hours at 80 ° C

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