

## TECHNICAL DATA SHEET

### RV2025 – VINYLESTER RESIN FOR SKINCOAT

RV2025 is a pre-accelerated, thixotropic vinylester resin to be used as a thin layer, in the creation of the mould 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

RV2025 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 30°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.

In its original packaging, the product can be used for **6 months** if stored indoor away from direct sunlight, at temperatures not exceeding 20°C.

#### TYPICAL SPECIFICATIONS OF THE LIQUID PRODUCT

| Tests made at 23°C                          | Value     | Unit | Method  |
|---------------------------------------------|-----------|------|---------|
| Viscosity (Brookfield, Spindle LV#3, 60rpm) | 500 - 650 | cP   | IMIA-10 |
| Styrene content                             | 33 - 35   | %    | IMIA-03 |
| Reactivity<br>(100g product + 1,5g CT21)    | 30 ± 5    | min  | IMIA-15 |
| Total cure time                             | 45 ± 5    | min  | IMIA-15 |
| Exothermic peak                             | 140 ± 5   | °C   | IMIA-15 |

#### TYPICAL CHARACTERISTICS OF THE CURED PRODUCT (\*)

| Tests made at 23°C                   | Value     | Unit | 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:<br>HDT | 100 ± 5   | °C   | IMIA-50   |

(\*) Curing cycle: 24 hours at 23°C and 4 hours at 90°C

The information and data contained in this technical sheet are based on the measurements and experience gained; in good faith, they are made available to the customer who is responsible for the application verification and the definition of suitability for the intended use.

INTEC assumes no responsibility for the results obtained in the specific application made by the user.

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**INTEC s.r.l. a Socio Unico**

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