

TECHNICAL DATA SHEET

BC90V – VINYLESTER BARRIER COAT

BC90V is a syntactic foam based on vinylester resin and low-density mineral fillers, specifically formulated to be applied as the first layer after the gelcoat and thus act as a barrier to the printing caused by the fibers and the reinforcing cores of the composite laminate, even after weeks and months from the demolding of the pieces from their respective molds.

It represents an effective partial or total alternative to the first layer of manual MAT (skincoat) with significant advantages in terms of laminate construction speed.

BC90V has high thermal resistance ($HDT > 80^{\circ}\text{C}$), constitutes an excellent barrier against osmosis with reduced water absorption of the product and guarantees a superior quality of the surface finish.

Easily applied with a gelcoat machine.

The product contains a "color-changing" pigment (*Viracolor*) in order to verify the homogeneous dispersion of the peroxide.

SUPPORTS

Recommended: properly prepared and cleaned polyester and vinylester gelcoats.

GENERAL INSTRUCTIONS FOR USE

Apply on the surfaces free of dust, fibers, dirt and condensation. It is recommended to apply BC90V maximum 2 hours after applying the gelcoat.

Mix BC90V with 1,0 – 2,0% of liquid hardener CT23 (methylethylketone peroxide), bearing in mind that the amount of hardener required depends on the temperature of use and the processing times required.

The recommended use temperature range is between 16 and 28°C .

Apply by brush or spray.

Spray application, which can be achieved with a common gelcoating machine, is recommended as it reduces application times and allows greater uniformity of the thicknesses obtained. Recommended thickness: 800 - 1000 microns to be obtained by means of 2 coats with an interval of about 5 min.

It is advisable to start lamination no later than 2 hours after applying the Barrier coat.

For quantities over 5kg, mixing with a stirrer is recommended.

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 . Some drift may occur in gel time.

TYPICAL SPECIFICATIONS OF THE LIQUID PRODUCT

Tests made at 23°C	Value	Unit	Method
Color	Light Blue - Viracolor	-	IMIA-01
Density	$0,80 \pm 0,05$	Kg/l	IMIA-02
Viscosity (Brookfield, 1rpm)	30000 – 40000	cP	IMIA-10
Reactivity (100g product + 1,50g CT23/MEKP 50%)	20 ± 5	min	IMIA-15

TYPICAL CHARACTERISTICS OF THE CURED PRODUCT (*)

Tests made at 23°C	Value	Unit	Method
Linear shrinkage	$0,50 \pm 0,05$	%	IMIA-25
Superficial hardness	65 ± 5	Shore D	IMIA-29
Thermo-mechanical resistance: HDT Tg	90 ± 5 95 ± 5	$^{\circ}\text{C}$ $^{\circ}\text{C}$	IMIA-50 ASTM D3418
Water absorption (After 24 hours of immersion at 80°C)	0,2	%	IMIA-46

(*) Curing cycle: 24 hours at 23°C and 3 hours at 80°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.

Last update: January 2025

Revision: 3



INTEC s.r.l. a Socio Unico

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