BÜFA®-Resin UP 0113 ACR

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BÜFA®-Resin UP 0113 ACR is a pre-accelerated, low viscosity, thixotropic and filled laminating resin of medium reactivity. Due to its consistency, BÜFA®- Resin UP 0113 ACR is suitable for both hand lay-up and fiber spray processes. The resin has a white inherent color. In terms of chemical structure, it is an unsaturated polyester resin based on orthophthalic acid / standard glycol, dissolved in styrene.

Profile

Product type	Resin
Pre-accelerated product	Yes
Colour	white to light yellow
Odour	like styrene

Application Range

BÜFA®-Resin UP 0113 ACR was mainly developed for GF-UP reinforcement of composite parts with extremely low shrinkage. Due to the special setting, the exotherm and shrinkage is very low. When processed properly, it can be used to produce laminates up to 10 mm thick in a single operation.

Specification / Technical Data

Density (BM D01) approx.	1.55 g/mL
Flashpoint (BPV FP 02) approx.	32°C
Styrene content approx.	21.8 %
Viscosity (BM V01) **Viscosity at 20°C with spindle 3 and 20 rpm**	2,000 - 2,500 mPas

The BÜFA testing standards define the testing scenario after the values are determined in our facilities. They relate to generally accepted standards and are available under request.

Curing

Reactivity	BM R02
Peroxide addition	2.0 wt% Butanox M-50
Geltime (Reactivity 20-30°C)	20 - 30 min
Curing time (Reactivity 20°C-Tmax)	40 - 70 min
Tmax (Reactivity Tmax at 20°C)	60 - 140 °C

We recommend post-curing (tempering) the component for several hours at 80°C, as this is the only way to achieve the optimum mold material properties.

ATTENTION! The above information refers exclusively to the use of the peroxides mentioned here in the indicated dosage. If other products are used or if the dosage differs, the results may vary.

Processing

The resin should be stirred gently before use.
Before use, the resin should be brought to temperatures suitable for processing – i.e. to at least 20 °C. Otherwise, both the viscosity (and thus the impregnation properties) and the curing are negatively influenced.

Storage and handling

As a result of the wide range of factors which may influence the operating conditions and the application of the product, the user must still carry out their own tests and trials.

The product must be kept closed, cool, dry and protected from sunlight.

In unopened and undamaged original containers, at storage temperatures of up to 20 °C the product can be used for at least 3 months.

The setting and curing times as well as the viscosities may vary with longer storage periods.

Settling of the fillers can be observed with increasing storage time. Homogenization of the container before use is therefore essential.

The above details have been compiled to the best of our knowledge and are based on our current knowledge and experience. These details only constitute product descriptions. Under no circumstances do they constitute guarantees relating to quality or durability. The processor is obliged to carry out their own tests and investigations in order to take responsibility for any processing and application of our products in the processor's application area. The latest version of the corresponding EU safety data sheet must also be observed.