



DIEPAL 2140 BMT

Technical Data Sheet DIEPAL 2140 BMT

Description

DIEPAL 2140 BMT

is an unsaturated polyester resin based on orthophthalic acid, DCPD, DIN 1130 (DIN1694/2), dissolved in styrene, for the manual application and fibre spraying process. It is covoraccelerated (B) and thixotropic (T). The milieu component (M) ensures reduced styrene emissions during processing as well as tack-free curing.

DIEPAL 2140 BMT is low to medium reactive and cures even with thick laminates with low temperature peak and low distortion.

Features

Features

Features	Unit	DIEPAL 2140 BMT
Density at 20°C	g/cm ³	1.10
Brookfield viscosity at 23°C	mPas	390-430
Solid content	%	55-59
Gelling Time (1.5% Norox CP)-9)	min	22-27
Temperature peak	°C	70-90
Shelf life at 23°C in the dark	Months	6

Mechanical properties (cured resin not reinforced)

Post-curing (16 hours at 40 ° C and 2 hours at 90 ° C)

Features

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Tensile strength (ISO 527)	MPa	53,8
E-Module (tensile test; ISO 527)	MPa	3642
Elongation at break (ISO 527)	%	1.74
Flexural strength (ISO 178)	MPa	104
Bending modulus (ISO 178)	MPa	3217
Heat deflection temperature (ISO 75-2 A)	°C	96 (+ 2 h at 120°C)

Processing/Hardening

Before processing, UP resins should be stirred well and homogenized.

For curing, we recommend organic peroxides with low water and glycol content, such as Norox KP-9. You can vary the processing time slightly via the hardener content. However, the hardener content should be in the range of 1.0-2.5%. Please make sure that there is a good and homogeneous mix after the hardener has been added!

For perfect curing and curing, room, tool and material temperatures of 18-25 °C are recommended.

During curing, direct sunlight and contact with water/moisture should be avoided.

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Storage/Handling

UP resins should be stored in the original closed container in dry, well-ventilated places without light and at temperatures below 25 °C.

Please note the safety-relevant data and information on correct handling in the safety data sheet!

Work Equipment Cleaning

Hardened resins can only be cleaned mechanically, such as by grinding! Acetone can be used to remove non-hardened resin residues from the tool, which must then air out sufficiently to prevent the cleaner from entering new containers!

Precautions

When processing unsaturated polyester resins, the information in the safety data sheet must be observed!

More information

If you have any further questions, for example about the processing or the product, please do not hesitate to contact us by phone.

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