

Veropal WSB E

Epoxy impregnation system

DESCRIPTION

VEROPAL WSB E is a two-component transparent epoxy system characterized by low viscosity.

USAGE

The system VEROPAL WSB E is used to stabilize wood, bones and other porous materials. Curing takes place at an elevated temperature of 85 - 95 ° C in an oven for at least 2 hours.

ADVANTAGE

- Brightness and transparency of the system - does not affect the original colour of the stabilized material
- Vacuum saturation of material without foaming
- Long pot life
- Possibility of colouring with different dyes
- High saturation capacity

PRODUCT PROPERTIES

Properties of non-cured system

Veropal WSB E, component A

Viscosity at 25 °C	850 – 950	mPa.s	EN ISO 12058-1
Density at 23 °C	1.05 – 1.15	g/ cm ³	CSN EN ISO 1675
Appearance	Clear liquid	-	-

Veropal WSB E, component B

Viscosity at 25 °C	60 – 100	mPa.s	EN ISO 12058-1
Density at 23 °C	0.90 – 1.00	g/ cm ³	CSN EN ISO 1675
Appearance	Clear liquid	-	-

Mixing ratio

Component A - resin	100	pbw
Component B - hardener	40	pbw

Properties of the system after mixing

	Mixture component A : component B
Mixing ration A :B	100 : 40
Viscosity at 25 °C	450 - 550
Density at 23 °C	1.03
Appearance	Clear liquid
Pot life at 25°C	< 2 hr

PROCESSING

First mix both components at normal temperature. The stabilized material is placed in a vacuum chamber and immersed in the prepared mixed epoxy system. Lightweight materials need to be loaded to be completely immersed in the resin during vacuuming. In the case of heavily porous materials, the resin level in the vacuum chamber will drop significantly. It is necessary to check that the stabilized material is still below the resin level. Then the chamber vacuum is switched on and the material is vacuumed until air bubbles escape. Subsequently, the vacuum is released and the resin is allowed to penetrate into the material for a further 30 minutes (the material saturation time is approximately the same as the vacuum time). For larger samples, repeat this procedure.

Upon completion of the saturation process, the samples are wrapped in Al foil and placed in a preheated oven (85-95 °C) and allowed to cure for at least 2 hours (curing time depends on the size of the cured material). After the resin has cured and cooled, the stabilized material can be sanded and polished to its final appearance.

The cured material must contain less than 10% moisture. For complete drying of the material, it is recommended to insert the samples for a minimum of 12 hours (drying time depends on sample size) into a 105 °C oven. After drying, the sample is sealed in a well-sealed container and allowed to cool. Do not put freshly dried hot material into the stabilizing resin! Premature polymerization may occur and the sample will not be stabilized properly.

PACKAGING

The product is supplied in 1, 5 or 10 kg cans (or according to customer requirements).

STORAGE

Product should be stored in a covered, dry place. The temperature of storage and transport should not be below 5°C or above 25°C. Under these conditions the expected shelf life is 12 months.

SAFETY DATA

Very good ventilation and use of protective goggles and gloves is recommended. Detailed information is contained in the MSDS.

REMARKS

Information about product properties and application procedures has been obtained by laboratory measurements and application tests. This Information Sheet presents only legally non-obligatory recommendations and product application methods must be in conformity with particular conditions. For further information don't hesitate to contact us.

Issued on: 03/2019
Reviewed on: 03/2019
Issued by: Research & Service