

EPOLIT RS 7700

Epoxy System for Natural Stone



**IBER
DIN[®]** **ADVANCED
TOOLS AND
TECHNICS**

EPOLIT RS 7700 100:25 DIAMOND Epoxy System for Natural Stone

Description

Typology: Epoxy Resin and hardener.

Characteristics

This EPOXY resin system offers a viscosity and surface tension specially designed for the treatment of natural stone on industrial lines, indicated for reparation of fissures, pin-holes and micro-cracks found in natural stone.

Owed to its progressive and constant drying process, with incremental hardness ratio, it is optimal for usage on microwave units and accumulator ovens, achieving reduced curing cycles.

Transparency and exothermic properties of EPOLIT RS 7700 DIAMOND are optimal. Gloss and limpidity are achieved even for big clusters of resin in larger holes and cavities. This resin system provides perfect impregnation of the surfaces, producing great adhesion to the stone.

Based on aliphatic and cycloaliphatic amines, the curing of the mixture provides high hardness and extra low Yellowing effect under daily sun exposure (ASTM G-151).

Application

This epoxy system is applied by manual or automatic dosifier, directly on the stone surface. The ideal application requires keeping the stone at a constant temperature through the whole process, preheating the stone to reduce humidity and boost reaction.

The best range of temperatures is between 35 °C and 45 °C, this being adaptable to specific working requirements.

Regardless of the application method, the ratio resin/hardener has to be exact and homogeneous, so the mixing needs to be thorough.

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PHYSICAL PROPERTIES			
	Part A	Part B	Mixture
Viscosity at 25°C (cPs; ISO 2555)	400 - 500	100 - 150	-----
Density	1,1 gr/cm3	1,02 gr/cm3	-----
Appearance	Transparent	Transparent	Transparent
Mixture ratio (by weight)	100	25	4:1

WORKING PROPERTIES	
Gel time (20°C, 100gr. - DIN 16945)	45 - 75 Min
Catalysis time	80 – 100 Min
Yellowing index (ASTM G151)	$\Delta E < 4$ (after 100 h UV conditioning)

Storage

Keep away from the light between 15 °C and 25 °C. Avoid the contact between hardener and metal packages or other metallic items, under these conditions, the maximum storage time is 12 months.

Packaging

The product is available in 1000 Kg tanks, 200Kg Barrels and 20Kg Tins. Under request it can be supplied in 10 to 20 tones containers.

Safety

There are Safety Data Sheets of Part A and Part B available for customers. We highly advice to follow handling, use, security and ecological instructions.