

# ROCK SET 100

## Two-Component Multipurpose Epoxy Paste

**PRODUCT DESCRIPTION** Rock Set 100 is a two component adhesive and repairing mortar, based on epoxy resins and special fillers, free from solvents.

**USES** Rock Set 100 is specially indicated for:

- Adhesive for non too heavy pieces and for those who do not create big stresses between adhesive and substrate (< 1 Mpa).
- Punctual concrete repairing: edges, holes.
- Joint filling and crack sealing.
- Surfaces regularization when high levelling and mechanical resistances are required.
- Joint's profile repairing.
- Bonding of pieces, which need to compensate high tolerances between the pieces to be bonded.

**ADVANTAGES** Rock Set 100 provides the following advantages:

- Easy application over dry and slightly damp substrates.
- Very good adhesion to most of the construction materials: concrete, mortar, stone, brick, cement fiber, and other porous materials.
- Liquids impermeability.
- Thixotropic, also at big temperatures.
- Free from solvents.
- Hardens without shrinkage.
- Two components of a different color in order to control the mixing.
- No primer needed.
- High initial and final mechanical resistances.
- Good abrasion resistance.

It compensates tolerances between the pieces to be bonded.

**PRODUCT DATA** 2-component-epoxy resin.

**Type**

**Colour** Grey (Comp. (A): white, Comp. (B): dark grey).

**Packaging** Pre-measured 5 kg units

**Storage** Store in shade, under normal weather temperature and in dry conditions.

**Shelf Life** 24 months from its manufacturing date, in their original packaging.

**Technical Data** Approx. 1.9 ± 0.05 kg/l of the fresh mix.

**Density**

**Elastic Modulus** 100'000 kg/cm<sup>2</sup>

**Mechanical Resistance** Compression : 700 kg/cm<sup>2</sup>  
Flexural: 300 kg/cm<sup>2</sup>  
Tensile: 200 kg/cm<sup>2</sup>

**Concrete Adhesion** > 30 kg/cm<sup>2</sup> (Dry concrete)  
> 20 kg/cm<sup>2</sup> (wet but mate concrete).

**Steel Adhesion** Approx. 90 kg/cm<sup>2</sup> (23°C, 7 days, 50% R.H.)

**Application Details** Comp. (A) = 4 parts.  
**Mix Proportions by Weight** Comp. (B) = 1 part.

**Consumption** The consumption of Rock Set 100 is approx. 1.9 kg/m<sup>2</sup> for 1 mm of thickness.

<b>Substrate Preparation</b>	<p>Concrete, mortar, stone: Substrate should be sound, clean, dry or slightly damp, and free from grease, oils, dust, old paintings, and all loosely adhering particles. Concrete should have a minimum age of 3 weeks.</p> <p><b>Steel:</b> Substrate should be free from oils, grease, rust and any other substance, which could decrease adhesion. Be careful with the water condensation (dew point).</p> <p><b>Other surfaces (polyester, epoxy, glass, ceramic...):</b> Over substrates with low porosity it is necessary to apply previously (primer) and then, before the hardening of the primer (wet over wet) apply Rock Set 100.</p>
<b>APPLICATION</b>	Min. 10°C
<b>Application Temp.</b>	
<b>Mixing</b>	Mix the two components using a low speed electric stirrer (max. 600 rpm), for at least 2 minutes, until obtaining a grey homogeneous paste. Avoid air entrance during the mixing.
<b>Application</b>	<ul style="list-style-type: none"> <li>□ If using it as a thin layer adhesive, apply Rock Set 100 with a spatula, trowel, toothed trowel, (or with your hands protected with gloves).</li> <li>□ If using it as a repairing material it could be necessary to use a framework. The maximum layer thickness won't be higher than 30 mm.</li> <li>□ After applying it for bonding metallic profiles onto vertical surfaces or cellars, press uniformly those profiles using props for at least 12 hours, depending on the layer thickness applied (which won't be higher than 5 mm) and the room temperature.</li> </ul> <p>Once hardened it will be necessary to check the adhesion using a hammer</p>
<b>Tools Cleaning</b>	Tools should be cleaned immediately after its use. Once hardened Rock Set 100 could only be removed by mechanical ways.
<b>Pot Life (at 20°C)</b>	Approx. 40 min.
<b>Important Notes</b>	<ul style="list-style-type: none"> <li>□ As the temperature increases, the pot life decreases and vice versa.</li> <li>□ Sometimes it is necessary to use different lots, one after the other. It is not recommended to mix the following lot until the previous one has been finished in order to avoid a handling time decreasing.</li> </ul> <p>For any explanation, please contact our Technical Department.</p>
<b>SAFETY INSTRUCTIONS</b>	<ul style="list-style-type: none"> <li>□ The epoxy resins could affect skin. It is recommended to use rubber gloves during its handling.</li> <li>□ In case of contact with eyes, wash with plenty of clean water and go immediately to the doctor.</li> </ul>



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**CONSTRUCTION**