



## RECONSTEC 100

Granite restoration mortar

### DESCRIPTION :

**RECONSTEC 100** is a mortar specially designed for the restoration of granite. Non-shrink and very good bond to the stone. Easily applied to clean, sound substrates. May be feather edged. Contains no synthetic polymers.

### ADVANTAGES :

- The same coefficient of thermal expansion as granite;
- Granite aggregate is used in the mix;
- Very good adhesion to substrates;
- Not a vapor barrier, completely breathable;
- Good freeze / thaw resistance;
- Easy-to-use;
- No curing;
- Pigmented versions available.

Technical Data										
Application time	Approximately 15 minutes after mixing. Application time is dependent on temperature-it is faster in heat, slower in cool.									
Compressive strength (ASTM C-109)	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%; text-align: center;">1 day</td> <td style="width: 15%; text-align: center;">40 MPa</td> <td style="width: 15%; text-align: center;">(5800 Psi)</td> </tr> <tr> <td style="text-align: center;">7 days</td> <td style="text-align: center;">80 MPa</td> <td style="text-align: center;">(11600 Psi)</td> </tr> <tr> <td style="text-align: center;">28 days</td> <td style="text-align: center;">90 MPa</td> <td style="text-align: center;">(13100 Psi)</td> </tr> </table>	1 day	40 MPa	(5800 Psi)	7 days	80 MPa	(11600 Psi)	28 days	90 MPa	(13100 Psi)
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Flexural strength (ASTM C-348)	14,5 MPa (2103 psi)									
Modulus of elasticity (ASTM C-469)	27,5 GPa (400 000 psi)									
Bond strength (ASTM C-882 modif.)	13,3 MPa (1930 psi)									
Linear coeff. of thermal expansion	7 to 8 x 10 <sup>-6</sup> /°C									
Length change (ASTM C-157)	0,005 to 0,010 % (28 days)									
Water Absorption	0,5 to 1,5 %									
Mixing Ratio	The mixing ratio is approximately 5 parts powder to 1 part water by volume.									
Finishing Time	Approximately 2 hours after mixing-depends on temperature, relative humidity and type of finish desired.									
Specific Gravity	2,2									
Packaging	Plastic pail contains 20 kg (44 lb).									
Yield	Approximately 9,1 l (0.32 ft <sup>3</sup> )									
Shelf life	1 year in original, unopened pail.									

**SURFACE PREPARATION :**

Remove all impurities, dirt, grease, other bond inhibiting materials from surface. Preparation work should be done using manual or pneumatic cutting techniques.

**MIXING :**

The mixing ratio is approximately 5 parts powder to 1 part water. Use clean container. Pour water into mixing container. The mixing may be done by hand or using a slow speed drill (300-450 rpm) with a mixing paddle. The mortar should be the consistency of damp sand. Do not over water. Do not over-mix. Working time is approximately 15 minutes.

**APPLICATION & FINISHING :**

Mortar must be scrubbed into substrate, filling all pores and voids. Use a steel trowel. Force material against edge of repair, working toward center. For best results use **RECONSTEC 100** without aggregate as a first layer (bonding agent). When the mortar is hard use stone cutting tools to desired finish.

**CURING :**

Curing is not necessary.

**CLEAN UP :**

Remove the mortar from tools and mixing equipment with water. Cured material can only be removed mechanically.

**CAUTION :**

Avoid eye-contact and prolonged contact with skin. May cause irritation to sensitive skin. In case of skin or eye contact, wash thoroughly with water. If eye contact, consult nearest doctor.

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KEEP OUT OF REACH OF CHILDREN

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**WARRANTY :**

Information given is correct to the best of our knowledge and the product is satisfactory for the purpose for which it is intended. However, no guaranty, express or implied is given because every possible variation in the methods of its use or conditions under which it is applied cannot be anticipated. Our liability under this guarantee shall be limited to replacement of our product found to be defective or at our option, to the refund of the purchase price of said product.

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