

## RECONSTEC 350 - LIMESTONE

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Limestone restoration mortar.

#### DESCRIPTION

Reconstec 350 is a mortar specially designed for the restoration of limestone. Non-shrink with a very good bond to limestone. Easily applied to clean, sound substrates. Contains no synthetic polymers.

#### ADVANTAGES

- The same coefficient of thermal expansion as limestone.
- Very good adhesion to substrates.
- Not a vapor barrier, completely breathable.
- Good freeze-thaw resistance.
- Easy to use.
- Pigmented versions available.

#### TECHNICAL DATA

##### Application time:

Approximately 1 hour after mixing. Application time is dependent on temperature. Higher temperature will require a faster application than with cooler temperatures.

#### COMPRESSIVE STRENGTH

<b>ASTM C 109</b>	
<b>3 day</b>	15 MPa (2180 psi)
<b>7 day</b>	22 MPa (3200 psi)
<b>28 day</b>	30 MPa (4360 psi)

#### FLEXURAL STRENGTH

<b>ASTM C 348</b>	10.9 MPa (1581 psi)
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#### MODULUS OF ELASTICITY

<b>ASTM C 469</b>	13.1 to 14.5 GPa (1900000 to 2100000 psi)
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#### BOND STRENGTH

<b>ASTM C 882 (MODIFIED)</b>	10.4 MPa (1508 psi)
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#### LINEAR COEFF. OF THERMAL EXPANSION

3.6 to 4.6 x 10<sup>-6</sup>/°C

#### LENGTH CHANGE

<b>ASTM C 157</b>	0.015 to 0.020 % (28 day)
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#### SPECIFIC GRAVITY

1.8

#### POROSITY

10 %

#### MIXING RATIO

The mixing ratio is approximately 5 parts powder to 1 part water by volume.

#### FINISHING TIME

Approximately 1 hour after mixing. Finishing time will depend on temperature of substrate, humidity and type of finish desired.

#### PACKAGING

One plastic pail contains 20 kg (44 lb).

#### SHELF LIFE

1 year in original, unopened pail.

#### SURFACE PREPARATION

Remove all impurities, dirt, grease, and other bond inhibiting materials from the surface. Preparation work should be done using manual or pneumatic cutting techniques. Be sure patch area is not less 10 mm (½ inch) depth. Dampen surface to be repaired with clean water.

#### MIXING

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

#### 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 the center. When the mortar is the consistency of dry sand, screed to desired finish.

#### CURING

Spray surface with a mist of clean water for at least 3 days after installation, several times a day.

#### CLEAN UP

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

#### CAUTION

Avoid eyes contact and prolonged contact with skin. May cause irritation to sensitive skin. In case of skin or eye contact, wash thoroughly with water. Avoid breathing the dust. In case of contact with the eyes, consult a doctor. **KEEP OUT OF REACH OF CHILDREN.**

Note: The contents of this data sheet are updated regularly. To ensure that you have the most recent version, please visit our website at the following address: [www.king-masonry.com](http://www.king-masonry.com)

This product is designed to meet the performance specifications outlined in this product data sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade.

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# HERITAGE BUILDING SOLUTIONS

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