

RECONSTEC 300 AC

Architectural Concrete Repair Mortar

FEATURES & BENEFITS

- › Same thermal expansion coefficient as concrete
- › Excellent bond to substrate
- › Not a vapour barrier
- › Good resistance to freeze/thaw cycles
- › Easy to use
- › Available in a wide variety of colours and many types of stone and sand
- › Pigmented version available

CAUTION

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

Reconstec 300 AC is a mortar specifically designed for the restoration of architectural concrete. This product is easily applied to clean, sound substrates and has a very good bond with no shrinkage. Contains no synthetic polymers. For exposed aggregate applications over ¼ inch, it is necessary to use Reconstec 300 AC Anchoring Cement.

SURFACE PREPARATION

Remove all loose material, dirt, grease and any other elements that could prevent bonding between the substrate and restoration mortar. Preparation and cutting of the existing concrete surface should be done manually or with power tools to a minimum thickness of 3 times the diameter of the largest stone. Clean the area to be repaired with clean water and saturate the surface, taking care to remove excess water.

If aggregate in the mixture is ¼ inch or larger, use Reconstec 300 AC Anchoring Cement. Refer to the product Technical Data Sheet. It is important to use an anchoring cement that has the same color as the Reconstec 300 AC used on the project.

MIXING

Begin by pouring 75% of the required water into a clean container. Mixing can be done by hand or using a slow-speed mixer (300 rpm-450 rpm) with a Jiffiler-type end bit. Mix to a uniform consistency for a minimum of 3 minutes. Add more water to adjust the mixture and obtain desired consistency. Do not add too much water. Do not over mix. Working time is approximately 15 minutes.

APPLICATION & FINISHING

Trowel application

The mortar must be pressed against the substrate to fill all the pores and the voids. Use a steel trowel. Working from the center, press the mortar outwards to the area to be repaired. Allow the necessary time for the mortar to achieve its initial set. Then, using a brush or a sprayer, apply Reconstec 300 AC Vapour Retarder. Depending on the desired effect, let Vapour Retarder soak for a period of time. Then, using a brush and water where needed, expose aggregates from material surface using a brushing motion. Apply desired finish.

Use of a mold

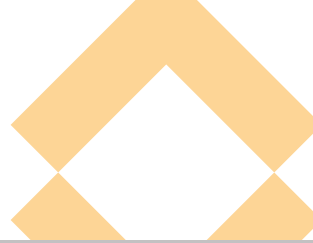
When a mold is required, apply the Retarder inside the mold prior to casting the mixture. When the mortar has hardened enough to permit stripping, the cement paste on the surface can be removed either with a brush, a high pressure water jet or a combination of both. The desired appearance of the finished product can be achieved by exposing the aggregate, by removal of the concrete paste.

CURING

Curing is not mandatory.

CLEAN UP

Use water to remove the mortar from tools and mixing equipment. The cured product can only be removed mechanically.



RECONSTEC 300 AC

GUARANTEE

All information provided is correct to the best of our knowledge and the product is satisfactory for the purposes for which it is intended. However, no guarantee, express or implied, is given because the mixing and application conditions are beyond our control. Our responsibility is limited specifically and only to the replacement of defective products or, if we so choose, to the REFUND OF THE COST OF THIS PRODUCT.

FINISHING TIME

1 hour after mixing. Several factors, including the ambient temperature, relative humidity and the type of finish desired, may influence the finishing time.

PACKAGING

One plastic pail contains 20 kg (44 lb.).

SHELF LIFE

1 year in original, unopened pail.

TECHNICAL DATA*

COMPRESSIVE STRENGTH

ASTM C 109

1 Days	15 MPa (2180 psi)
7 Days	30 MPa (4360 psi)
28 Days	40 MPa (5800 psi)

FLEXURAL STRENGTH

ASTM C 348	10.9 MPa (1581 psi)
------------	---------------------

ELASTICITY MODULUS

ASTM C 469	13.8 to 16.5 GPa (2000000 to 2400000 psi)
------------	---

BOND STRENGTH

ASTM C 882 (modified)	11.5 MPa (1670 psi)
-----------------------	---------------------

LINEAR COEFF. OF THERMAL EXPANSION

	3.6 to 4.6 x 10 ⁻⁶ /°C
--	-----------------------------------

LENGTH CHANGE

ASTM C 157	0.005 to 0.010% (28 days)
------------	---------------------------

MIXING RATIO

	1 part of water for about 7 parts of product.
--	---

SPECIFIC GRAVITY

	2.0
--	-----

YIELD

	Approximately 19 litres (0.36 ft. ³)
--	--

Note: The contents of this Technical 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

This product is designed to meet the performance specifications outlined in this product Technical 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.

V0521

SIKA CANADA INC.

Head Office

601 avenue Delmar
Pointe-Claire, QC H9R 4A9

Other Locations

Boisbriand (Quebec)
Brantford; Cambridge; Sudbury; Toronto (Ontario)

Edmonton (Alberta)
Surrey (British Columbia)