

VISCOTAQ™ CSP 550 EPOXY CONCRETE SEALING PRIMER

SEALING AND REPAIR FOR CONCRETE.

VISCOTAQ™ CONCRETE SEALING PRIMER is a 3 - component water displacing epoxy resin aggregate formulation which provides a durable, well bonded repair to concrete.

USES

VISCOTAQ™ Concrete Sealing Primer is designed for repair of uncoated concrete. Can be used as a trowelable mortar to produce a smooth finish and promote adhesion of VISCOTAQ™ products.

Due to its relatively long pot life, it is easy to handle yet still provides high early strength. It can either be placed by pouring into forms or pumped into place.

PHYSICAL PROPERTIES

(UNMIXED) @ 25°C

COMPONENT "A" (RESIN)

TX CSP550E-3A:

Specific Gravity	1.13
Viscosity	700 cP
Colour	Clear
Ratio by Weight	66%

COMPONENT "B" (HARDENER)

TX CSP550E-3B:

Specific Gravity	0.96
Viscosity	400 cP
Colour	Amber
Ratio by Weight	33%

COMPONENT "C" (AGGREGATE):

Free Flowing Non-Dusting Powder	
Colour	Neutral



MIXING RATIOS

For (2:1 C:A/B Weight Mixing Ratio - Hand Placing or Pumping for Aggregate

Aggregate Bag Weight	Solid to Liquid Ratio	A - Volume (L)	B - Volume (L)
6 kg	2.:1	2.0	1.0

These mix designs are given as a guide. Site temperature, material temperature, placing thickness may cause these to be amended. A trial mix should always be checked before proceeding.

NOTE: Component "C" (Aggregate) is a silica sand with a proprietary formula of fine and coarse grades. When fully cured, the epoxy resin is chemically bonded to the silica surface. This provides higher physical properties such as compressive tensile and impact strength.

CURE SCHEDULE

Pot Life 200 g.	@ 25° C	100 to 120 mins
Pot Life 200 g.	@ 38° C	35 to 45 mins
*Tack-free time	16° C to 26° C	10 to 20 hours
*Tack-free time	4° C to 15° C	20 to 40 hours
Full cure	16° C to 26° C	30 to 60 hours
Full cure	4° C to 15° C	+120 hours

Cure time is considerably longer at colder temperatures.

When mixed in full kits, pot life could be shorter due to volume of material.

**Based on 50 mm cubes.*



RECOMMENDED TEMPERATURES

Application: $\geq 0^{\circ}\text{C}$, preferable 15°C to 30°C
Service: -10°C to 65°C
 Peak Intermittent Temperature: 75°C

MOISTURE SENSITIVITY

VISCOTAQ™ Concrete Sealing Primer has good wet adhesion and good water displacement capabilities.

SURFACE PREPARATION

Surface preparation is very important and will improve the adhesion and extend the life of the primer:

- a) Must be cleaned free of old existing coatings. New concrete should hydrate a minimum of 5 days prior to placement of grout.
- b) Remove all oils, greases, dirt and wax solutions from surface.
- c) High-pressure waterblast, sandblast or shot blast surface to remove contaminants which will interfere with proper adhesion. Water blast shall be done at a minimum of 24 MPa.
- d) Mechanically clean to St2/St3 using rotating mechanical equipment, remove laitance and other surface contaminants.

MIXING

Use as supplied in pre-weighed packs. Pour component "A" resin & component "B" hardener into a 20L bucket. Agitate with a low speed mixer (200-300 rpm) for at least 3 minutes. When mixing, occasionally scrape the sides & bottom to make sure the entire product is mixed consistently.

Gradually add the aggregate (part C) while mixing until the desired consistency is achieved. The product is mixed properly when an even color is achieved without streaks and all the aggregate has been mixed with the resin.

APPLICATION

Hand Application

Apply mixed material onto surface and brush, trowel or roll to required thickness.

Placing by Hand Pouring into Forms

Once mixed, pour into formwork, ensuring it is well compacted, vibrating where possible. When using wood forms, use paraffin wax or polyethylene sheet to ensure easy formwork removal after pouring.

CLEAN UP

Clean equipment with Xylene, MEK, Acetone or equivalent solvent cleaner.

STORAGE

Store all 3 components in a dry, well-ventilated area at temperatures between 4.4°C and 40.5°C . Shelf life of unopened components is 2 years.

It is recommended that the product is stored at 20°C to 30°C for 24 hours prior to use for optimum pumping and productivity.

PACKAGING

C : A/B, 2:1 Weight Ratio

VISCOTAQ™ Concrete Sealing Primer

Part A (2kg)

Part B (1kg)

Aggregate (Part C 6kg) - 20kg per bag



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