



TECHNICAL DATA SHEET

PRODUCT NAME: FC Resurfacer Deep

PRODUCT DESCRIPTION

FC Resurfacer Deep is a just add water, fast curing, polymer modified, high strength, patching material and non-shrink grout used for repairing holes and spalled concrete areas. It is made with rapid set hydraulic cement, specially graded fine aggregates, and special polymers to create a high-quality material that is ideal where rapid strength gain, and high durability are desired. FC Resurfacer Deep can be applied from 0-1" thick or up to 2" thick or more in smaller areas and feathered to zero. FC Resurfacer Deep sets in 15-30 minutes and achieves structural strength in 1 hour.

TYPICAL USES

FC Resurfacer Deep is used on residential and commercial jobs to repair spalled concrete back to a like new condition. It is typically used on driveways, walkways, patios, pool decks, warehouses, retail outlets, and basement floors in preparation for applying Roll-Top Cement, SprayCoat Cement, TerraStone, SandKoat, and other coating applications. It can be spread using a hand trowel, Magic Trowel, Metal Squeegee, or screed rod and ground smooth when needed within 1 hour after application.

MIXING INSTRUCTIONS

Horizontal Applications

Step 1: Add 2 1/2 quarts of water in a 5 gallon mixing pail.

Step 2: Optional: If more working time up to 30 minutes is desired, add ½ oz of FC Powder Retarder to the water and stir. DO NOT USE THE GREEN LIQUID RETARDER WITH FC PATCHING and RESURFACING MIXES. ONLY USE FC POWDER RETARDER.

Step 3: Slowly add the 24 lb. bag of FC Resurfacer Deep to the mixing bucket while mixing.

Step 4: Mix a couple of minutes with a heavy-duty drill and 5 gallon size mixing paddle until lump free.

Step 5: Add ½ oz of FC Flow per 24 lb. bag and drill again to make the mix wetter. **Do not add FC Flow to the water.** Always add it after mixing in the FC Resurfacer Deep. Add up to 8 oz more of water if an even wetter mix is desired.

Step 6: Immediately dump the mix out of the bucket and spread over a damp surface (no puddles) using a trowel, magic trowel, or 24" standup metal edge curved tape knife to achieve the finish desired.

Small Batch Mixing Instructions – Mix 4 parts of FC Resurfacer Deep to 1 part water to achieve the consistency desired. Add approximately 1/4 tsp of FC Flow as needed to adjust the consistency.

PHYSICAL PROPERTIES

Set Time - ASTM C191 Mod.

Initial set 15 minutes

Final set 35 minutes

Compressive Strength - ASTM C109 Mod.

1 hour* 2500 psi (20.7 MPa)

3 hours 4500 psi (34.5 MPa)

24 hours 5500 psi (41.4 MPa)

7 days 6500 psi (48.3 MPa)

28 days 8500 psi (62.1 MPa)

Slant Shear Bond - ASTM C882 per C928

24 hours 1300 psi (10.3 MPa)

7 days 1800 psi (13.8 MPa)

28 days 2300 psi (17.2 MPa)

Flexural Strength - ASTM C78

500 psi (4.14 MPa) 7 days

700 psi (5.51 MPa) 28 days

Splitting Tensile - ASTM C496

7 days 600 psi (4.82 MPa)

28 days 800 psi (6.06 MPa)



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Vertical Mixing Instructions - For vertical applications such as steps and walls, mix the 24 lb. bag of FC Resurfacer Deep with 2 quarts of water to start with. Add up to 8-16 oz. more water if needed. For smaller batches mix 4 parts FC Resurfacer Deep to 1 part water. **Do not add FC Flow for vertical applications.** For longer working times up to 30 minutes, add ¼-½ oz of FC Retarder to the mix water before mixing in the FC Resurfacer Deep. The mix will be thicker, fluffier, and easier to shape and form on vertical surfaces without FC Flow added. **Note:** Adding FC Retarder will slow down the drying time of FC Resurfacer Deep. It may take 1 hour or more to set instead of 15-30 minutes.

SURFACE PREP AND APPLICATION INSTRUCTIONS

Step 1: Check for hollow spots and remove any loose or hollow areas using a hammer, scabbler, or scarifier machine. The surface should be solid and sound before patching with FC Resurfacer Deep.

Step 2: Clean the area to be repaired using a 4000 psi or higher pressure washer at close range using a turbo or 15 degree tip. Remove any loose or weak areas of the concrete surface. Scrub with detergent such as Simple Green or TruCitra Clean and rinse clean to remove any oil or other contaminants.

Step 3: Repair any cracks in the areas to be patched using Moisture Vapor Primer mixed with our Crack Filler Powder. This will help prevent the FC Resurfacer Deep from cracking or delaminating due to crack movement. If patching over joints always cut them back open to allow the joints to move without the patching mix touching in between. Grind the crack repairs or cover them with sand while wet before applying the FC Resurfacer Deep over them to achieve the best bond.

Step 4: After mixing FC Resurfacer Deep, mist the surface with water a section at a time with no puddles. Apply the FC Resurfacer Deep over the slightly dampened surface using a trowel, magic trowel, or 24" standup metal edge curved tape knife. Force a thin scratch coat into the pores of the surface one small section at a time. Immediately spread more FC Resurfacer Deep over the scratch coat while still wet to level the surface. Finish as smooth as possible.

Step 5: Allow the FC Resurfacer Deep to cure for 1 hour minimum before grinding smooth if needed.

Step 6: Once you achieve the smooth finish desired the surface is ready for Roll-Top Cement, SprayCoat Cement, TerraStone, SandKoat, or any other coating system. **See the FC Resurfacer Deep Training Guide and video for more information with step-by-step pictures.**

CLEAN UP

Water

SAFETY

Read safety data sheets prior to use.

WARRANTY / DISCLAIMER

StoneCrete Systems warrants their products to be of the highest quality and free from defects. Our only warranty with respect to the products we sell, and our sole obligation, is to replace, or give credit for any of our products that prove to be defective. Any claim under this warranty must be made no later than one year from the date of purchase. StoneCrete Systems makes no other warranties expressed or implied, or statutory such as warranties of merchantability or fitness for a particular purpose. In no event shall StoneCrete Systems be liable for consequential or incidental damages.

The product buyer assumes all responsibility or risk whatsoever as to the result of the use of the products purchased from StoneCrete Systems, whether used singly or in combination with other products or substances. Our warranty excludes problems that may occur following product application due to moisture in a substrate, cracking or problems associated with the substrate on which the product or products are applied, or customer abuse. It is the responsibility of each product buyer to determine the suitability of each product for his or her particular purpose.