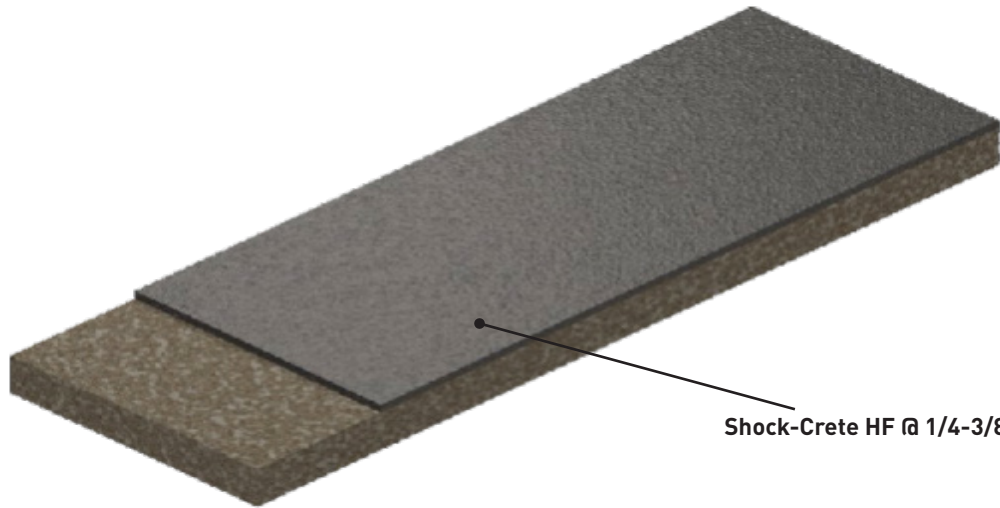


Shock-Crete® HF

(1/4 to 3/8 inch / 6 mm to 10 mm)

SYSTEM INFORMATION SHEET



Shock-Crete HF @ 1/4-3/8" (6-10 mm)

- » Highly functional trowel applied cementitious urethane mortar (1/4 to 3/8-inch / 6 to 10 mm).
- » Unaffected by MVT (moisture vapor transmission).
- » Contains Polygiene®, an antimicrobial additive based on silver ion nanotechnology.
- » Demonstrates excellent resistance to thermal shock, mechanical damage, and chemical attack.

TEST METHOD	RESULTS
Abrasion Resistance (ASTM D4060) CS-17 Wheel, 1,000 cycles	50 mg loss
Adhesion (ASTM D4541)	400 psi (2.76 MPa), 100% concrete failure
Coefficient of Friction (ASTM D2047)	Exceeds ADA recommendations
Coefficient of Thermal Expansion (ASTM C531)	1.1 x 10 ⁻⁵ in/in/°F
Compressive Strength (ASTM C579)	8,000 psi (55.16 MPa)
Flexural Strength (ASTM C580)	2,900 psi (20 MPa)
Tensile Strength (ASTM C307)	1,450 psi (10 MPa)
Tensile Strength (ASTM C307)	1,450 psi (10 MPa)
Temperature Resistance (continuous)	220°F (104°C)
Temperature Resistance (non-continuous)	250°F (121°C)

Shock-Crete® HF (1/4 to 3/8 inch / 6 mm to 10 mm)

SYSTEM INFORMATION SHEET

SYSTEM STEPS	PRODUCT	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT TIME
A. Trowel Mortar	Steri-Prime Series / Primer 67LV	3/8" - 1/4" (6 mm - 10 mm)	24 ft ² per single pack kit @ 1/4" (2.2 m ² @ 6 mm) 17 ft ² per single pack kit @ 3/8" (1.6 m ² @ 10 mm)	Shock-Crete Part A Shock-Crete Part B Shock-Crete HF Filler Pigment Pack	Finishing Trowels Screed Box Short Nap Mohair Roller	6 hours

Pour the material into a screed box (laying box) that is set to a depth which is 1/16" (2 mm) greater than the required thickness. Pull the box slowly (across the width of the area to applied) allowing the material to flow from the bottom of the box and achieve consistent coverage. The surface can then be compacted and finished with a trowel.

Alternatively, the mixed product can be poured out directly to the floor, spread to the desired thickness and finished with a trowel. Further finishing can be done by lightly rolling the surface with a mohair roller to even out the surface and reduce trowel marks. Excessive rolling reduces texture and can lead to pin holes in the resin rich surface. Finishing with a roller must be completed as quickly as possible and within 5 minutes after the material has been applied. The roller head must be replaced regularly (approx. every 500 ft²/46.5 m²) to prevent resin curing on the roller.

COVING					
PRODUCT	GENERIC TYPE	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT
Shock-Crete Vertical	Urethane Cement	1/8" - 3/16" (3 mm - 5 mm)	48 linear ft (14.6 m) / kit @ 4" (102 mm) high @ 1/8" (3 mm) 33 linear ft (10 m) / kit @ 4" (102 mm) high @ 3/16" (5 mm)	Shock-Crete Part A Shock-Crete Part B Aggregate Color Pack	Coving Trowel

Apply the mixed Shock-Crete Vertical over a wet tack coat of Shock-Crete Vertical resin base mix. (Note: If the tack coat cures before the matrix is applied - re-apply tack coat). Trowel up the wall with a straight edge trowel. Place extra mortar in radius and smooth with small radius coving trowel.

INSTALL

This document is meant as a guideline for the installation of the Shock-Crete HF system. Contact Dudick for further assistance prior to the installation.

SURFACE PREPARATION

Concrete must be prepared mechanically to remove surface laitance. Oils, grease, or other surface contaminants must be removed prior to surface preparation. Concrete must free of curing compounds and form release agents. Abrade the surface to achieve an ICRI CSP 5 surface profile. The prepared surface should have a nominal tensile strength of 250 PSI (1.72 MPa) per ASTM D-7234. Filled joints and cracks in the concrete may be coated, but if movement occurs the coating will crack with the movement of the concrete.

Concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D-4263. If moisture is found to be present, contact Dudick for further recommendations.

MIXING

All mixing should follow the mixing instructions on the specific Product Data pages.

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NOTE:

The technical data presented in this document is accurate to the best of Dudick and Carboline's knowledge based on laboratory testing of the product(s) or system(s) described. Actual results in the field may vary depending on field conditions and application methods. The performance characteristics stated do not constitute a guarantee or warranty that the products will meet the stated results under all circumstances. Contact Dudick or Carboline technical staff with questions.