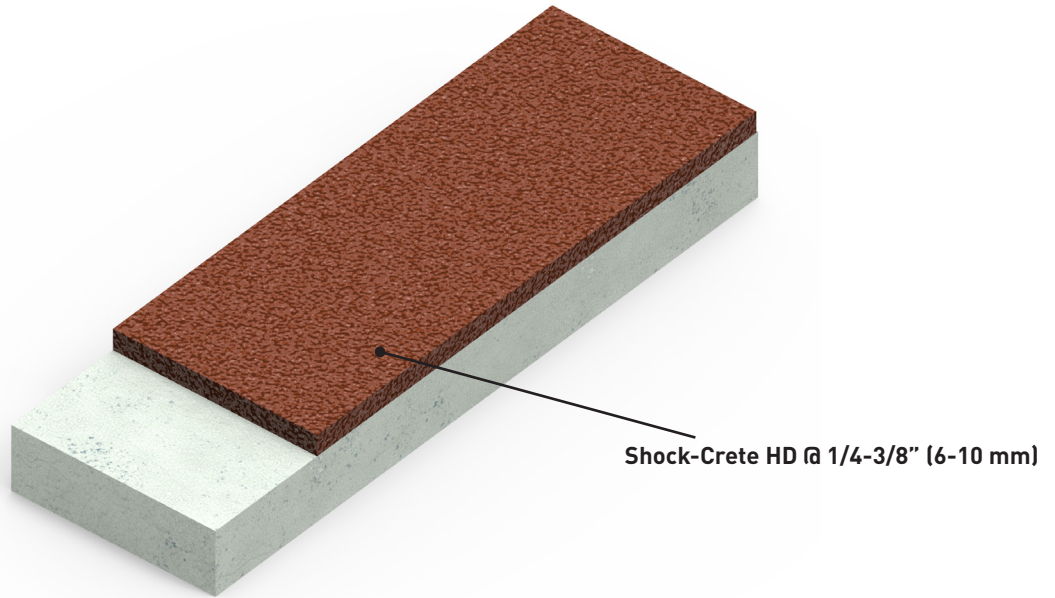


Shock-Crete® HD

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

SYSTEM INFORMATION SHEET



- » **Contributes toward satisfying credit for low emitting material under LEED 4.1**
- » **Meets SCAQMD Rule 1113 for VOC content**
- » **Thermal Shock Resistant**
- » **FDA and USDA Compliant**
- » **Anti-Microbial Agents are available as an option**
- » **Resistant to liquid nitrogen (Contact Dudick for recommendations when dealing with liquid nitrogen exposure)**

TEST METHOD	RESULTS
Coefficient of Thermal Expansion (ASTM C-531)	1.1 x 10 ⁻⁵
Compressive Strength (ASTM C-579)	7,300 PSI (50 MPa)
Density	130lb/cu ft (2082 kg/m ³)
Flexural Strength (ASTM C-580)	1,800 PSI (12 MPa)
Modulus of Elasticity (ASTM C-580)	1.7 x 10 ⁵ PSI
Taber Abrasion (ASTM D-4060)	70 mg
Tensile Bond Strength (ASTM C-7234)	Cohesive Failure of Concrete
Tensile Strength (ASTM C-307)	825 PSI (6 MPa)

Shock-Crete[®] HD

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

SYSTEM INFORMATION SHEET

PRODUCT	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT TIME
Shock-Crete HD	1/4" - 3/8" (6 mm to 10 mm)	19-21 ft ² per unit at 1/4" (1.8-2 m ² @ 6 mm) 15 ft ² per unit at 3/8" (1.4 m ² @ 10 mm)	Shock-Crete Part A Shock-Crete Part B Aggregate Color Pack	Finishing Trowels Screed Box Short Nap Mohair Roller	16 hours (min) 48 hours (max)

Pour the material into a screed box (laying box) that is set to a depth which is 1/16" 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 HD 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.

Dudick is part of Carboline

1818 Miller Parkway
Streetsboro, Ohio 44241
1-800-322-1970
330-562-1970
Fax: 330-562-7638
www.dudick.com

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.