



Dudick inc.

Corporate Offices
1818 Miller Parkway
Streetsboro, OH 44241
330-562-1970
330-562-7638 FAX
www.dudick.com

SHOCK-CRETE 500 TOPCOAT
Low VOC
Flexibilized, Color Stable
Urethane Topcoat
15-20 mils

GREEN BUILDING FEATURES

Contributes towards satisfying Credit 4.2 under LEED
Contains recycled post industrial crushed glass
Contains rapidly renewable materials

RECOMMENDED APPLICATIONS

Shock-Crete 500 Topcoat is designed for direct application over Dudick Shock-Crete cementitious urethane. It is an aliphatic urethane that will provide a color stable gloss finish over Shock-Crete where aesthetics are important.

Designed to cover pinholes and other minor surface flaws

Shock-Crete 500 can be applied directly over cured Shock-Crete or over a broadcast finish.

It is an opaque topcoat that can be colorized.

PHYSICAL PROPERTIES

Tensile Strength ASTM D412	2,000-2,500 PSI
Tensile Elongation ASTM D412	100-150%
Tensile Bond Strength ASTM D7234	Cohesive failure of concrete
VOC ASTM D2369 Method E	<5 g/l

SPECIFICATIONS

Shock-Crete 500 Topcoat shall be a 15-20 mil urethane topcoat as manufactured by Dudick, Inc. and applied in accordance with the manufacturer's recommended practices.

THE SHOCK-CRETE 500 TOPCOAT SYSTEM

Shock-Crete 500 Topcoat uses flexibilized urethane resin and proprietary fillers to produce self-leveling.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

APPROXIMATE SQUARE FEET PER GALLON	
Topcoat	80-100 ft ² / gallon @ 15-20 mils

**Quantities shown are for estimating purposes only. Actual field usage may vary.

APPLICATION INSTRUCTIONS

Substrate temperature of concrete must be between 50°F and 110°F.

Relative humidity must not exceed 75%.

Substrate temperature must be 5°F above the Dew Point.

Do not thin.

PRIMING

No priming required over cured **Shock-Crete**.

If application is over substrate other than cured **Shock-Crete**, contact a Dudick representative for best recommendation.

TOPCOAT

Add the full contents of Component B to Component A and mix thoroughly.

Do not use partial or opened containers. Once a container is opened, it must be used. Any leftover material must be disposed.

Apply 15-20 mils WFT, depending on desired surface texture, using a serrated squeegee or gauge rake. Immediately roll with a 3/8" nap solvent resistant roller and back roll to smooth topcoat finish.

Special attention must be paid to cross-hatch roll the material especially on edges & perimeter.

Do not dip & roll.

NOTE

All substrate defects such as bugholes, divots, etc. shall be filled smooth with surrounding substrate surface with the specified Dudick Scratch-Coat prior to the application of **Shock-Crete 500 Topcoat**.

Cure Cycle

Temperature	Maximum Recoat Time	Cure Time
50°F	120 hrs.	6-8 hrs.
75°F	72 hrs.	4 hrs.
90°F	48 hrs.	3 hrs.

If these recoat times are exceeded, consult a Dudick representative. Sanding or abrasive blasting may be required before the next coat. Recoat times are dramatically reduced when the coating is exposed to direct sunlight.

Application of **Shock-Crete 500 Topcoat** in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading, or evening application may be required. Consult a Dudick representative.

CLEANING

Use **S-10 Cleaning Solvent** to clean tools and equipment.

SHIPPING

Refer to Material Safety Data Sheets.

STORAGE

Warning: All Dudick products classified by DOT with either white, yellow or red labels must not be mixed or stored together as an explosive reaction can occur.

Store all products in a cool, dry area away from open flames, sparks or other hazards.

When stored in their original, unopened containers at 50°F-75°F, **Shock-Crete 500 Topcoat** components will have a six-month shelf life. **Containers of Shock-Crete 500 Topcoat that have been opened must be discarded if not used.** Storage in direct sunlight or excessive heat will reduce working time and shelf life.

SAFETY

M.S.D.S: Material Safety Data Sheets must always be read before using products. Shock-Crete 500 Topcoat systems are intended for application by experienced, professional personnel. Dudick, Inc. can supply supervision to help determine that the surface has been properly prepared, the ingredients correctly mixed, and the materials properly and safely applied.

If **Shock-Crete 500 Topcoat** materials are to be applied by your own personnel or by a third party contractor, please be sure that they are aware of the following safety precautions:

- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people. Cleanliness of the skin and clothing is critical and must be of paramount concern.
- Fumes are flammable and heavier than air. Proper ventilation should be maintained to minimize breathing of concentrated fumes.
- Suitable respirators should be used during application.
-



Dudick inc.

Corporate Offices
1818 Miller Parkway
Streetsboro, OH 44241
330-562-1970
330-562-7638 FAX
www.dudick.com

SHOCK-CRETE 500 TOPCOAT
Low VOC
Flexibilized, Color Stable
Urethane Topcoat
15-20 mils

- Safety glasses, gloves, and suitable protective clothing must be worn at all times during application.
- If contact with hardeners occurs, remove any clothing involved and flush the skin with flowing water. Discard the clothing. Do not attempt to wash and reuse it. **Shock-Crete 500 Topcoat** liquid can be removed with **S-10 Cleaning Solvent**, MEK, or lacquer thinner.
- Keep open flames and sparks away from the area where materials are being mixed and applied.
- If a rash occurs, remove the individual from the work area and seek a physician's care for dermatitis.
- In case of eye contact, flush with water for at least 15 minutes and consult a physician.
- If swallowed, do not induce vomiting; call a physician immediately.

NOTE: Dudick, Inc. ("Dudick") warrants all goods of its manufacture to be as represented in its catalogs and that the manufacture of its products by its employees or sub-contractors shall be performed in a workmanlike manner. Dudick's sole obligation under this warranty shall be to replace any material which its examination shall disclose to be defective. Dudick makes no warranty concerning the suitability of its product for application to any surface, it being understood that the goods have been selected and the application ordered by the Purchaser. DUDICK, INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT

THE GOODS SHALL BE MERCHANTABLE OR THAT THE GOODS ARE FIT FOR ANY PARTICULAR PURPOSE. THE WARRANTY OF REPAIR OR REPLACEMENT SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES ARISING BY LAW OR OTHERWISE; AND DUDICK INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWN TIME, DAMAGES TO PROPERTY OF THE PURCHASER OR OTHER PERSONS, OR DAMAGES FOR WHICH THE PURCHASER MAY BE LIABLE TO OTHER PERSONS, WHETHER OR NOT OCCASIONED BY DUDICK'S NEGLIGENCE.

This warranty shall not be extended, altered or varied except by written instrument signed by Dudick and Purchaser.

01/04/18