

SELECTION & SPECIFICATION DATA

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| Generic Type | Self-leveling cementitious urethane floor coating |
| Description | Self-leveling base layer for use in cementitious urethane flooring systems. Flake, colored quartz, or sand can be broadcast in to create a more decorative flooring system. Contains Polygiene® which has antimicrobial properties that protect it from degradation caused by microorganisms. Demonstrates excellent resistance to thermal shock, mechanical damage, and chemical attack. |
| Features | <ul style="list-style-type: none"> • Resistant up to 12 lbs of moisture vapor transmission per 1000 sq ft/ 24hrs • Excellent chemical resistance • High abrasion resistance • Resistant to thermal shock • Withstands mechanical stress • Easy to clean and sterilize surface • Resistant to steam cleaning • Positive slip resistance • May be applied to "green" concrete • Ultra low VOC/odor • Suitable for use in USDA inspected facilities • Can be use in decorative flake or quartz systems |
| Typical Uses | <ul style="list-style-type: none"> • General concrete restoration • Breweries and beverage plants • Food processing plants • Meat packaging plants • Automotive aisleways • Machine shops • Laboratories |
| Color | Stocked Colors: Red (Q501), Mid Gray (Q703), Cream (Q202), Dark Gray (Q704), Tan (Q204), Khaki (Q205), Green (Q302), and Safety Yellow (Q603), and Black (Q900). |
| Finish | Matte |
| Primer | Self Priming |
| Recommended Thickness | 1/8"-3/16" (3-5 mm) *Typical thickness achieved after the addition of broadcast sand. |
| Coverage Rate | 94 ft ² at 3/32"(8.7 m ² at 2.4 mm)/ Large kit 63 ft ² at 1/8" (5.9 m ² at 3.2 mm)/ Large Kit |
| VOC Values | As supplied 0.04 lbs/gal (5 g/L) |
| Dry Temp. Resistance | Continuous: 180°F (82°C) Non-Continuous: 220°F (104°C) |
| Limitations | Shock-Crete SL2 may change color over time depending on exposure to UV light and heat. This does not compromise the product's chemical resistance or physical characteristics. |
| Topcoats | Shock-Crete Topcoat, Shock-Crete TCUV, Sealer 985, Sealer 30 or as or as recommended by Dudick. |

SUBSTRATES & SURFACE PREPARATION

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| | <p>Concrete must be prepared mechanically to remove surface laitance. Oils, grease or other surface contaminants must be removed prior to surface preparation. Concrete must be free of curing compounds and form release agents.</p> <p>Abrade the surface to achieve an ICRI CSP 3-5 surface profile.</p> <p>The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D-7234.</p> <p>Anchor grooves or keyed joints, at least ¼" (0.64 cm) wide and ¼" (0.64 cm) deep, must be cut at terminations and transitions.</p> |
| Concrete | <p>All control joints must be honored. Anchor grooves or keyed joints must be cut at all transitions and terminations. These must be cut at least ¼" (0.64 cm) wide and ¼" (0.64 cm) deep.</p> <p>Filled joints and cracks in the concrete may be coated, but if movement occurs the coating will crack with the movement of the concrete.</p> <p>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</p> |

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

| Test Method | Results |
|--|-------------------------------------|
| Abrasion Resistance (ASTM D4060) CS 17 Wheel, 1000 cycles | 50 mg loss |
| Adhesion (ASTM D4541) | 400 psi (100% concrete failure) |
| Coefficient of Friction (ASTM D2047) | Exceeds ADA recommendations |
| Coefficient of Thermal Expansion (ASTM C531) | 2.7×10^{-5} in/in/°F |
| Compressive Strength (ASTM C579) | >7,250 psi |
| Flexural Strength (ASTM C580) | 2,900 psi |
| MVT Resistance (ASTM F1869) | 12 lbs/1,000 ft ² /24hrs |
| Tensile Strength (ASTM C307) | 1,740 psi |

The figures and test results shown are typical properties achieved in laboratory tests at 68 °F (20 °C) and at 50% Relative Humidity.

MIXING & THINNING

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| Mixing | <p>Pour component A into a suitably sized mixing vessel and add the pigment pack and mix using a slow speed drill and helical spinner for 20 seconds.</p> <p>Add component B. Mix for 30 seconds and then add the Shock-Crete SL2 aggregate while mixing. Ensure that all aggregate and resin have been scraped into the mix from the sides of the mixing vessel otherwise bubbles/blisters can develop in the applied floor.</p> <p>Continue mixing until a homogeneous mixture is obtained (1-2 minutes).</p> <p>Pour mixture directly onto the substrate so it can be placed without delay.</p> <p>Scrape out any residual material from the mixing vessel and dispose of, before starting the next mix. Working time of the following mix could be reduced if residue from the previous mix is not removed.</p> <p>When possible, use common batch numbers for pigment packs on the same job help ensure color uniformity.</p> <p>Do not split batches/components. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in color, etc.</p> <p>There are often several types of products at a workplace. Sort and establish a mix an organized mixing station to avoid mistakes.</p> |
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MIXING & THINNING

Thinning | For improved flow and leveling or when working in hot weather, a maximum of 4 fl.oz. of Thinner 45 (Mineral Spirits) can be added.

Working Time | 15 minutes at 70 °F (21 °C)

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General |

- ½" (1.27 cm) Notched Squeegee or a gauge rake/cam rake set to 1/8" or greater
- Finishing and margin trowels
- Short nap mohair, spiked, or loop rollers

APPLICATION PROCEDURES

General | Prior to starting the job, the product should be stored between 60-80 °F (16-27 °C) to ensure adequate mixing, flow, and penetration of the product.

Broadcast | Broadcast desired aggregate into wet material until rejection. After the coating is hard enough to walk on, remove excess aggregate and apply desired topcoat.

Application |

Pour the material onto the substrate, using a cam rake, gauge rake, or notched squeegee, place it without delay.
 Pull the tool (across the width of the area to applied) allowing the material achieve consistent coverage.
 For small areas or under immovable equipment trowel placement may be used.
 Further finishing can be done by lightly rolling the surface with a spiked or loops 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 within 5 minutes after the material has been placed.
 The roller should be replaced regularly (approx. every 500 sq.ft/ 46.5 sq.m) to prevent resin curing on the roller.

Maximum application width is determined by material and ambient temperature conditions, which affect the working life of the product and determines the speed of installation and man power required. As a guide (for substrate and material temperatures up to 70 °F / 21 °C) a competent team of 4-5, could lay a maximum bay width of 30 feet. At higher temperatures the bay width should be reduced by up to a half.

APPLICATION CONDITIONS

| Condition | Material | Surface | Ambient | Humidity |
|-----------|-------------|-------------|-------------|----------|
| Minimum | 60°F (16°C) | 50°F (10°C) | 40°F (4°C) | 0% |
| Maximum | 80°F (27°C) | 90°F (32°C) | 90°F (32°C) | 95% |

The temperature of the substrate should be at least 50 °F (10 °C), although a temperature of 60-80 °F (16-27 °C) is recommended.

Shock-Crete[®] SL2

PRODUCT DATA SHEET



CURING SCHEDULE

| Surface Temp. | Light Traffic | Heavy Traffic | Final Cure |
|---------------|---------------|---------------|------------|
| 50°F (10°C) | 14 Hours | 36 Hours | 7 Days |
| 70°F (21°C) | 8 Hours | 16 Hours | 5 Days |
| 90°F (32°C) | 5 Hours | 10 Hours | 2 Days |

At lower temperatures the hardening time is longer. It is important there are no dry patches. Complete hardening takes 5-7 days. Shock-Crete SL2 should not be applied in thicker than specified because the rate of cure can be affected.

Unless applied wet on wet, a minimum of 16 hours dry time is required before recoating.

If recoat window of 24 hours maximum recoat is exceeded on neat (un-broadcasted) system installations is exceeded, the surface must be abraded before applying additional coats

CLEANUP & SAFETY

Cleanup | Clean tools immediately with Thinner S-10, 2, or 76.

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.

MAINTENANCE

General | Normal plant cleaning procedures may be employed after the Shock-Crete floor has been put in service. There are no effective restrictions on the method of cleaning employed. Shock-Crete products, when properly installed, will withstand water wash down at continuous sanitizing temperatures.

PACKAGING, HANDLING & STORAGE

Packaging | **Shock-Crete SL2 Packaging**
Shock-Crete Part A (Large Kit)- 1 x 1.20 gal (4.5 liters)
Shock-Crete Part B (Large kit) - 1 x 0.98 gal (3.7 liters)
Shock-Crete SL2 Filler C - 1x 40 lb (18 kg) bag
Pigment Pack - 1 x 1 lb (.45 kg) bag
Yields approximately 3.8 mixed gallons

Shelf Life | 12 months in unopened container

Storage Temperature & Humidity | 50-90°F (10-32°C)
Do not allow material to freeze.

Shipping Weight (Approximate) | Approx. 51.5 lbs (23.4 kg)

Flash Point (Setaflash) | Part A: >200 °F (93 °C)
Part B: 351 °F (177 °C)

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.