

TECHNICAL DATA SHEET

DESCRIPTION

Top-Cast is a water-based, top-surface retarder which does not require covering with plastic for protection. It is available in 12 depths of etch, each one color and number coded for safety and convenience.

USE

Ideal for cast-in-place flatwork and the top surface of pre-cast concrete panels. The wide selection of grades available provides a comprehensive range of effects, from a simulated light acid wash or sand blast finish up to full exposure of 1-1/4 in. (32 mm) aggregate.

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FEATURES

- Comprehensive range of etch depths
- Color and Number coded products
- Pigmented for ease of application
- Excellent coverage rates
- Requires no plastic covering
- Fast turnaround
- Low odor

VOC

All the Top-Cast grades are compliant with all Canadian and U.S. VOC regulations for sealers including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Packaging

Product Code	Item #	Package Color	Aggregate Size to Expose
100123	01	White	Very Light Acid Etch Finish
309055	03	Violet	Acid Etch Finish
309056	05	Light Blue	Sandblast Finish
309057	15	Yellow	Up to ¼" (6.55 mm)
309058	25	Beige	1/8" - 1/4" (3 mm - 6.5 mm)
309059	50	Canary Green	1/8" - 3/8" (3 mm - 9.5 mm)
145523	75	Blue	1/8" - 3/8" (3 mm - 9.5 mm)
145524	100	Gray	3/8" - ½" (9.5 mm - 13 mm)
145525	125	Pink	3/8" - 5/8" (9.5 mm - 16 mm)
145526	150	Green	3/8" - 5/8" (9.5 mm - 16 mm)
145527	200	Salmon	5/8" - 1" (16 mm - 25 mm)
145528	250	Orange	1" - 1½" (25 mm - 38 mm)

Top Cast will cover approximately 200-300 sq. ft. gal (4.9-7.4 sq m /L). All products come in 5 gallon pails, quart size samples are available

STORAGE

Keep from Freezing. Top-Cast has a shelf life of two years from date of manufacture, in closed original container.

Mock Up:

Always prepare small test panels to determine the most suitable grade to obtain the desired depth of etch. When placing test samples, always simulate job site conditions as well as mix designs to be used on the project to establish the proper grade selection and procedures.

APPLICATION

Values listed below are for standard mix designs with 564 lbs./cu. yd. (355 kg/cu m) of cement. Mixes with more or less cement may yield different results. Always install a mock up to ensure desired results. Contact Dayton Superior for non-standard mix designs.

Additional information is available on-line at www.daytonsuperior.com, including user and placement guides. Please consult these guides prior to product use.

Concrete Mix Design:

Cement content and aggregate size and type will affect final appearance. Consult the online Top-Cast User Guide for additional information.

Surface Preparation:

In preparation for placement of concrete, protect all curbs, borders, adjacent stones, pavers, etc. with a coat of Face-Off™. Allow coating to dry before placing concrete. Place concrete and float or trowel finish. Consult the online Top-Cast User Guide prior to using the Top-Cast for additional concrete mix design and finishing technique considerations.

Mixing:

Mix Top-Cast thoroughly prior to each use.

Placement:

Refer to the online Top-Cast User Guide for helpful hints on concrete finishing techniques. Apply Top-Cast uniformly to the wet concrete after the evaporation of the initial bleed water. Spray with a low-pressure sprayer (plastic preferred) until the surface has a complete hiding coat. Do not apply too sparingly. Use water for clean up. Once dry (1-2 hours after application depending on ambient temperature and humidity), Top-Cast provides good protection against intermittent rain and does not require additional cover.

SEALING

For enhanced appearance, Dayton Superior's Ultra Seal EF can be applied 24-48 hours after placement of the concrete. Allow surface water from pressure washing to evaporate prior to application. For projects requiring an ASTM C 309 curing compound or ASTM C1315 Cure & Seal, apply Cure & Seal 1315 EF after pressure washing and evaporation of the surface water.

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For added protection and appearance, Ultra Seal EF may be applied over the Cure & Seal 1315 EF once the Cure & Seal 1315 EF has dried.

Removal:

Actual removal time for the desired appearance varies based upon concrete mix design, finishing technique, weather conditions and grade of Top-Cast used. The retarded cement matrix can be removed as early as 4 hours and up to 16 hours depending on conditions. The use of a garden hose with a stiff broom can be used when removing Top-Cast sooner or using high-pressure water or a combination of water and scrubbing if left on longer. With faster setting concrete mix designs or application in hot weather, it may be necessary to remove the retarded matrix the same day for best results, particularly, when using the lightest etches. A mock up panel placed near the actual concrete placement using the same concrete mix and technique can be used as a test panel for aid in determining the proper time to remove the retarded matrix.

Do not wait too long to remove Top-Cast. Top-Cast will slow the set of the concrete surface but will not stop it, if the concrete cures to hard the Top cast will be harder to remove.

CLEAN UP

Clean tools and equipment with clean water after use.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

In hot weather it may also be necessary to remove the retarded matrix the same day for best results. Removal of the Top-Cast and retarded concrete matrix too early or too late will effect the appearance of the concrete. Not designed for in-form use. Protect surrounding surfaces from overspray during application and removal.

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT

- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

MANUFACTURER

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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.