

# **TECHNICAL DATA SHEET**

# **SECTION 12**Surface Retarders

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# TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION

Face-Off is an innovative surface protectant designed to keep splatter, color, cementitious toppings, cures and retarder overspray from adhering to the surfaces surrounding a concrete placing and finishing operation. It replaces the need for costly plastic barriers, which otherwise need to be taped in place while being compatible with many surfaces including but certainly not limited to masonry, stone and concrete.

# USE

When applied to the face of brick or tile prior to being placed in the form Face Off will eliminate the adherence of grout or concrete, which may leak through the joints during placement and vibration. Face-Off is water-soluble and should be applied the same day of placement for best results. It is easily removed when the general washing of the concrete surface begins normally the next day. If the removal processes on the following day does not include power washing or scouring with a buffing pad and applying pressure water, the protected area must be washed clean in 24–36 hours to prevent the splatter from adhering.

## **BENEFITS**

- Protects surfaces from overspray or splatters
- Easier to use than plastic coverings
- Easy to remove
- Water clean-up

# **SURFACE PREP**

Surfaces should be clean and dry

# **MIXING**

Always mix or stir Face-Off gently and thoroughly prior to each use.

# **APPLICATION**

- 1. Apply one coat of Face-Off to the surface to be protected by brush, roller or pump type sprayer at a rate of 400–500 sq. ft./ gal (9.8 12.2 sq m/L). The coating will dry in 10–15 minutes depending on weather conditions. Apply the same day as concrete placement or if used on surrounding masonry as protection from concrete splatter or chemical overspray.
- 2. Place concrete mix.
- 3. Strip panels after adequate curing and pressure wash to remove leakage from brick or tile face. Wash surrounding areas the next day when using as masonry protectant.
- 4. If the removal processes on the following day does not include power washing or scouring with a buffing pad and applying pressure water, the protected area must be washed clean in 24–36 hours to prevent the splatter from adhering.

#### **CLEAN-UP**

Clean Up the retarded matrix with clean water the same day for best results.

#### **ESTIMATED COVERAGE**

400-500 sq. ft./gal (9.8 - 12.2 sq m/L).

#### **PACKAGING**

Item #	m # Packaging		
		Gals.	Liter
309054	Pail	5	18.9

#### **STORAGE**

Protect from freezing. Shelf life is two years from manufacturing date in closed original container.

# LIMITATIONS FOR PROFESSIONAL USE ONLY

Protect from freezing.

Thinning not recommended.

Apply the same day as concrete placement.

Remove within 24 hours of the placement.

# **PRECAUTIONS**

#### **READ MSDS PRIOR TO USING PRODUCT**

- Keep material and containers away from high heat, open flames, sparks or other sources of ignition
- 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**

Dayton Superior Corporation 1125 Byers Road Miamisburg, OH 45342

Customer Service: 888-977-9600 Technical Services: 866-329-8724 Website: www.daytonsuperior.com

#### 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, 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 OF THERWISE 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.



# 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 11 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.

#### **FEATURES**

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

## **VOC**

Top-Cast® grades 03, 05, 15, 25, 50, 200, 250 are compliant with all US VOC regulations for sealers including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Top-Cast® grades 75, 100, 125, 150 comply with Federal EPA, OTC & LADCO regulations

# **ESTIMATING GUIDE**

Coverage: Top Cast® will cover approximately 250-350 sq. ft. gal (6.1-8.6 sq m /L).

#### **PACKAGING**

Top Cast® is available 5 gal (19 L) plastic pails in the following grades.

Item #	Product Code	Package Color	Aggregate Size to Expose
309055	03	Violet	Acid Etch Finish
309056	05	Light Blue	Sandblast Finish
309057	15	Yellow	Up to ¼" (6.5 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)
309060	75	Blue	1/8" – 3/8" (3 mm - 9.5 mm)
309061	100	Gray	3/8" – ½" (9.5 mm – 13 mm)
309062	125	Pink	3/8" – 5/8" (9.5 mm – 16 mm)
309063	150	Green	3/8" – 5/8" (9.5 mm – 16 mm)
309064	200	Salmon	5/8" – 1" (16 mm – 25 mm)
309065	250	Orange	1"-1½" (25 mm – 38 mm)

<sup>\*</sup> Values listed 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.

#### **STORAGE**

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

#### **APPLICATION**

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

**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.

**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 Top Cast® User Guide prior to using the Top Cast® for additional concrete mix design and finishing technique considerations.





#### Surface Retarder

**Concrete Mix Design:** Cement content and aggregate size and type will affect final appearance. Consult the Top Cast® user quide for additional information.

Mixing: Mix Top Cast® thoroughly prior to each use.

Placement: Refer to the Topcast® 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), Top Cast® provides good protection against intermittent rain and does not require additional cover.

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 is normally washed away the next day, using high-pressure water or a combination of water and scrubbing. 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.

# **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. 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.

# **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 MSDS 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
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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, 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 IEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OF THERWISE 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.

