

TECHNICAL DATA SHEET

DESCRIPTION

TOP-CAST HG 500 High Gloss Sealer is a water based, non-yellowing acrylic concrete sealer. Top-Cast HG 500 is designed to seal, protect and add an attractive gloss to exposed aggregate concrete. Top-Cast HG 500 is bluish resistant and has good resistance to common chemicals.

Top-Cast HG 500 is part of the TOP-CAST® Decorative Finish System including:

TOP-CAST® Surface Retarder
TOP-CAST® SS 100 Site Saver
TOP-CAST® EX 200 Wash-Off Extender
TOP-CAST® PR 300 Penetrating Protector
TOP-CAST® CS 400 Cure and Seal
TOP-CAST® HG 500 High Gloss Sealer

USE

Top-Cast HG 500 can be used on new or existing exposed aggregate concrete where a glossy, film forming sealer is desired. Top-Cast HG 500 is non-yellowing, making it suitable for both interior and exterior applications. This ultra low VOC sealer can be used in all VOC restricted areas in the United States and Canada.

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FEATURES

- VOC compliant in all areas of the U.S. and Canada
- Tested and compliant per CDPH V1.2
- Resists blushing, hazing or whitening
- Ultra UV stable, non-yellowing
- Low odor
- Excellent weatherability
- Easy spray/roll application
- Non-flammable
- Safe to use and store
- Compatible with prior applications of Top-Cast CS 400



PROPERTIES

Moisture Vapor Transmission ASTM D1653
A: 40 g/sq m /24 hours
Accelerated Weathering: ASTM G53:
Non-Yellowing after 4000 Hours QUV

CHEMICAL RESISTANCE

Results based upon lab testing for splash, spillage and intermittent contact. Clean up all contaminants as soon as possible to avoid staining. A mock up sample is recommended to determine suitability of resistance for any particular application.

Chemical Resistance

(One Hour Exposure with no Evaporation)
Used Motor Oil Excellent (no effect)
DI Water Excellent (no effect)
10% Sodium Hydroxide Excellent (no effect)
10% Sodium Hydroxide Excellent (no effect)
10% Sodium Chloride Excellent (no effect)
10% Calcium Chloride Excellent (no effect)
3% Trisodium Phosphate Excellent (no effect)
10% Ammonia Excellent (no effect)
10% Hydrochloric Acid (Poor)

Brake Fluid (Poor)
100 proof alcohol (Poor)
Gasoline (Poor)
Skydrol (Poor)

Stain Resistance

(One Hour Exposure)
Ketchup Excellent (no effect)
Mustard Excellent (no effect)
"Kool-Aid" Excellent (no effect)
Grape Juice Excellent (no effect)
Coffee Excellent (no effect)
Chocolate Syrup Excellent (no effect)
Tincture of Iodine (Poor)
Coal Tar (Poor)

Drying time:

Approximately 2-3 hours @ 70°F (21°C) for recoating or light foot traffic. Wait 12 hours for heavy traffic. Dry time is temperature, humidity and wind dependent.

VOC

Top-Cast HG 500 contains less than 100 g/L VOC. Compliant with all Canadian and U.S. VOC regulations for sealers including Federal EPA, OTC, LADCO, SCAQMD & CARB.

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Estimating Guide

First Coat 200-300 ft²/gal. (4.9-7.4 M²/L)
Second Coat 400-600 ft²/gal. (9.8-14.8 M²/L)

NOTE: Texture and absorption rate of the concrete will influence coverage rate. Two coats of Top-Cast HG 500 are recommended. Allow the first coat to dry before applying the second coat.

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallon	Liter
101007	Pail	5	18.9

COLOR

Milky white liquid that dries clear.

STORAGE

KEEP FROM FREEZING. Shelf life is 18 months from date of manufacture in original unopened containers.

Surface Preparation:

Substrates should be clean, free of all debris and contaminants and thoroughly dry. Newly placed exposed aggregate concrete must be cured 24-48 hours from time of completed installation, depending on ambient conditions, substrate and mix design. Longer curing times are required in cool, damp conditions.

Top-Cast must be removed prior to application of sealer.

Mixing

Top-Cast HG 500 should be thoroughly mixed prior to application. Do not thin or dilute.

Placement:

Apply the Top-Cast HG 500 by brush, roller or spray. Uniformly apply the Top-Cast HG 500 at 200-300 sq. ft./gallon (4.9- 7.4 sq m/L) per application. Allow the Top-Cast HG 500 to dry then uniformly apply a second coat of sealer. Ensure application is uniform and a complete film over the entire surface has been achieved.

Do not apply the sealer applications too heavy or too light per coat. Light coats do not form a complete film, while heavy coats will extend the dry time and could discolor or peel. In general, two light coats are more effective than one heavy single coat.

Re-application can take place as soon as the previous coat has dried. Protect the application from rain, snow or excessive moisture for 24 hours.

CLEAN UP

Clean tools, equipment and wet material with clean water. Dried material may be removed with Dayton Superior's Green Bean Clean or Citrus Cleaner J48.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

Minimum ambient and surface temperature for application is 40°F (4°C) during application and for a minimum of 24 hours after application.

Do not apply if rain, snow or excessive moisture is expected during application or within 24 hours after application.

Top-Cast HG 500 will interfere with the adhesion of sealants, thus avoid spraying product into a joint prior to installation of sealant.

Not compatible with exposed aggregate previously treated with Top-Cast PR 300

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT

- 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

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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.