Scratch Coat 800

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Vinyl ester patching compound
Description	An vinyl ester based patching compound for filling surface defects and bugholes in concrete substrates. This product uses an epoxy resin and a unique, inert mineral filler to achieve a smooth non-slumping fill material. The system is formulated to improve the integrity and continuity of a prepared substrate, prior to the application of a coating or lining system.
Features	• Vertical and overhead applications • Sandable • Easy application and workability • Meets most VOC requirements
Color	Brownish Gray
Primer	Primer 27 series
Dry Film Thickness	5 - 125 mils (127 - 3175 microns) DFT
Solid(s) Content	100% by volume when filled
Coverage Rate	75 - 90 sq ft per 5 gallon kit at 1/8" (3 mm) thickness. Coverage rate is dependent on the condition of the substrate and amount of G-2 Filler used.
VOC Value(s)	97 g/l
Topcoats	Topcoat selection will depend on exposure

SUBSTRATES & SURFACE PREPARATION

Steel	May be used as a pit or void filler on steel in ambient service. Refer to System Information Sheet or product data sheet of the topcoat where Scratch-Coat 800 is being used for steel surface preparation requirements.
Concrete	Refer to System Information Sheet or product data sheet of the topcoat where Scratch-Coat 800 is being used for concrete surface preparation requirements.

PERFORMANCE DATA (TYPICAL VALUES)

Test Method	Results
Adhesion to Concrete ASTM D7234	Cohesion Failure of Concrete
Adhesion to Steel ASTM D4541	1,500 PSI

MIXING & THINNING

Mixing	Using the correct amount of PH-1 Hardener for each gallon of Scratch-Coat 800 liquid, mix for 1-2 minutes. Then gradually add the G-2 Filler to achieve a trowelable, putty-like consistency. **7-10 lbs per gallon is needed to achieve the correct consistency for patching.** Adding more catalyst than what is needed for the given temperature it's being installed in, will shorten the expected pot life.
Thinning	DO NOT THIN

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MIXING & THINNING

Ratio

Hardener PH-1 Amount/Gallon Resin
4 oz (118-148 ml)/gallon of PH-1 to Scratch Coat 800 @ 50ºF-60ºF (10ºC-15ºC)
3-4 oz (89-118 ml)/gallon of PH-1 to Scratch Coat 800 @ 60ºF-70ºF (15ºC-21ºC)
2-3 oz (59-89 ml)/gallon of PH-1 to Scratch Coat 800 @ 70ºF-90ºF (21ºC-32ºC)

To prevent material waste and avoid damage to equipment, do not mix more material than can be used.

Pot Life

60 minutes @ 50ºF (10ºC)
45 minutes @ 75ºF (24ºC)
30 minutes @ 90ºF (32ºC)

APPLICATION PROCEDURES

General

In order to prevent curing problems with styrenated products, air movement and/or ventilation must be maintained, not only during application but also after application until the system has totally cured. This will prevent high concentration of styrene inhibiting/retarding the cure of the system.

Trowel

Though the Scratch-Coat 800 is a trowel or squeegee applied material, it is not intended to be utilized as a surface “coating”. The compound should be spread firmly, forcing the material into voids and pinholes. Use the trowel blade to scrape excess material from flat, void-free surfaces. The consistency of the mortar provides excellent non-slumping characteristics for vertical or overhead use. This normally allows completion of the surface preparation following only one application.
Allow the Scratch-Coat 800 to cure until firm before proceeding with the specified basecoat and topcoat. Excessive trowel marks and/or rough areas should be sanded smooth.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	60°F (16°C)	60°F (16°C)	0%
Maximum	80°F (27°C)	110°F (43°C)	110°F (43°C)	90%

Substrate temperature must be 5ºF (3ºC) above the dew point.

CURING SCHEDULE

Surface Temp.	Minimum Recoat Time	Maximum Recoat Time
50°F (10°C)	8 Hours	6 Days
75°F (24°C)	3 Hours	4 Days
90°F (32°C)	90 Minutes	2 Days

If these recoat times are exceeded, sanding or abrasive blasting may be required before the next coat. Recoat times are dramatically reduced when coating is exposed to direct sunlight.
Application in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures.

CLEANUP & SAFETY

Cleanup

Use S-10 Cleaning Solvent or Carboline Thinner 2 to clean tools and equipment.

Safety

Read and follow all caution statements on this product data sheet and on the SDS. Employ normal safety precautions. Keep container closed when not in use.

CLEANUP & SAFETY

Ventilation	Ventilation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. Use MSHA/NIOSH approved air respirators as needed.
Caution	Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all Ignitions sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging	**5 Gallon Kit:** Scratch Coat Part A - 1 x 4.85 Gallons (18.4 liters) in a 5 gal pail PH-1 Hardener: 20 fl oz (.16 gal /.60 liters) in a plastic bottle G-2 Filler - 2 x 25 lb bag (11.3 kg) Yields approximately 7.19 mixed gallons Scratch-Coat 800 resin or additional bags of G-2 Filler can be ordered separately if needed.
Shelf Life	Part A: 6 months @ 75°F (24°C) PH-1: 6 months @ 75°F (24°C) G-2 Filler: Indefinite @ 75°F (24°C) When properly stored in their original containers. Storage in direct sunlight or excessive heat will cause premature gelling and reduce working time and shelf life. Material not eligible for return after purchase.
Storage	All products should be stored in a cool, dry area away from open flames, sparks or other hazards. ***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.
Shipping Weight (Approximate)	5 Gallon Kits: 40.5 lbs G-2 Filler: 2 x 25.5 lbs

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.