

PRODUCT INFORMATION SHEET
6850 COATING SYSTEM
CHEMICAL RESISTANT

DESCRIPTION:

6850 CS is a two-component, high performance, vinyl ester coating system. It is designed for walls, ceilings, columns, and other surfaces subjected to immersion, spills or fumes. 6850 CS is a high film build system with excellent adhesion to concrete or steel.

ADVANTAGES:

- Excellent Chemical Resistance
- Temperature Resistant
- High Film Build
- Low Permeability
- Quick Cure, Low Down Time

USES:

- Walls, Ceilings, and Columns
- Interior and Exterior of Tanks
- Curbs and Pump Pads
- Equipment Coating
- Structural Steel

SUPPLEMENTAL PRODUCTS:

- Epofil Masonry Filler (2 Day cure required, and seal with Ultraprime)
- ULTRAPRIME – Penetrating Moisture Cure Primer
- 6200 FS - Flooring Systems
- 5500 Grout – Pitching And Filling
- 6800 LS - Lining System – Trenches And Sumps

PACKAGING AND COVERAGE:

6850 CS – 1 gallon kit – covers approximately 100 square feet at 15 mils, and consists of the following –
1 container – Part A (pigmented resin)
1 container – Part B (catalyst)

6850 CS - 5 gallon kit – covers approximately 500 square feet at 15 mils, and consists of the following –
1 container – Part A (pigmented resin)
1 container – Part B (catalyst)

Recommended Film Thickness:

- Fume exposure – 24-30 mils. Applied in two coats.
- Spills/Immersion – 32-40 mils. Applied in three coats.

PROPERTIES:

Compressive Strength	16,000 psi ASTM C-579 (resin)
Tensile Strength	13,300 psi ASTM C-307 (resin)
Bond Strength (on Steel)	3500 psi
Impact Strength	100 in./lbs.
Indentation	No indentation MIL-D-3134F
Abrasion Resistance	68 milligrams ASTM D-1044
Max. Temperatures	Wet Exposure 190°F Dry Heat 300°F
Shelf Life	60 Days
Colors	Grey, White, Red
Solids Content-Theoretical	By Weight 99% By Volume 98.5%

SURFACE PREPARATION:

6850 CS may be installed only on clean, sound surfaces. Concrete:

New concrete must be cured a minimum of 28 days. All coatings, oils, grease and unsound concrete substrate must be removed. Concrete surfaces must then be acid etched, scarified or blasted to remove surface laitance. A good bonding tooth, the texture of 60 grit sandpaper, is desired for adhesion, with the removal of all surface glaze.

For Metal Surfaces:

Blast the surface to near white SSPC-SP10-70 or NACE No. 2 using a Venturi blast nozzle with 100 psi air. To produce the proper 4 mil anchor profile, the blast media should be properly graded, clean, sharp, and angular similar to Humble Abrasive Flint #7 (6-30) mesh, or Steel Grit (HG25).

MIXING:

Prior to starting, materials should be stored at 70°F (21°C) for at least 48 hours.

ULTRAPRIME (optional - concrete surfaces only) - single component product, so it can be applied directly from the can without mixing.

6850 CS - Empty 1/2 of the material into a clean container. Mix remainder to disperse coloring. Pour back material from other container. Add catalyst 2 oz/gallon at 60°F (10°C), 1.5 oz/gallon at 75°F (24°C), 1 oz/gallon at 90°F (32°C) and mix for 2 minutes. Pot-life is approximately 15-20 minutes.

APPLICATION:

Substrate temperatures should be at 65°-85°F (18°-29°C) during application and for 96 hours thereafter for complete cure. Do not apply if surface temperature is below 60°F (16°C). On concrete surfaces, first apply PROTECTIVE ULTRAPRIME Penetrating Moisture Cure Primer. 6850 CS Coating can be applied by spray, roller, or brush. Recoat time is: 12 hours at 60°F (10°C), 6 hours at 75°F (24°C), 3 hours at 90°F (32°C). If basecoat is left for more than 48 hours, the surface must be wiped down with MEK or acetone before top coating.

CURE TIME:

6850 CS will harden in 6 hours and cure for spill exposure within 96 hours at 75°F (24°C). For chemical immersion applications - 7 days cure at 75°F (24°C). Cure can be accelerated by introducing heat to tank. Do not heat over 120°F (49°C), and only increase at a rate of 20°F (-7°C) per hour. Caution: 6850 CS is flammable.

CLEANUP:

Cured or hardened 6850 CS will bond to practically all surfaces, and is extremely difficult to remove. Clean all tools and mixer immediately after use with acetone or other solvent based cleaners.

SAFETY:

Avoid skin contact. If eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never seal a container of mixed Part A and B as the continuing exothermic reaction may cause container to explode. 6850 CS is manufactured using a styrene monomer, which will give off an odor during application. Customer is responsible for protecting employees and food products from these odors. Cured product poses no threat of odor contamination. 6850 CS Material Safety Data Sheets are available upon request.

IMPORTANT NOTICE TO PURCHASER:

The following is made in lieu of all warranties, expressed or implied. Seller and manufacturer's only obligation shall be to replace such quantities of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential arising out of the use of or inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risks and liability whatsoever in connection therewith. The foregoing may not be altered unless written authorization is received from PROTECTIVE FLOORINGS AND LININGS, A DIVISION OF A. W. CHESTERTON CO.

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