

## PRODUCT DESCRIPTION

ChemShield 1684 is a sprayable, 100% solids, A.H.C. (Advanced Hybrid Cycloaliphatic) Novolac Epoxy Coating which exhibits resistance to organic solvents, caustic environments, and acidic exposures. ChemShield 1684 is designed to give wide-range chemical resistance for flooring and secondary containment applications. ChemShield 1684 provides "splash and spill" as well as secondary containment protection for 72 to 96 hours of exposure.

## APPLICATION DATA SUMMARY

See Application Instructions for complete information on surface preparation, equipment, environmental conditions, application procedures, and safety precautions. For conditions outside the specifications or limitations described, contact Wolverine Coatings Corporation for details.

## SURFACE PREPARATION

Coating performance is directly related to the quality and degree of surface preparation. Prior to overcoating, all surfaces must be clean, dry, undamaged, and free of all contaminants. For more specific information, consult the surface preparation section contained in the Application instructions.

## SAFETY PRECAUTIONS

Read the Safety Data sheet carefully before use. Safety precautions in the SDS should be carefully followed during storage, handling and use. Improper use and handling can be hazardous to health and cause fire or explosion. For further information, please refer to our "Epoxy Resin Safety Handling Guide."

## APPLICATION DATA

Substrate:	Blasted concrete, steel, fiberglass
Surface Preparation	
Steel	SSPC-SP5 Abrasive Blast
Concrete	ASTM D4258
*Contact our Technical Services for an exact recommendation	
Application Method:	Airless spray, trowel, roller, or brush
Pot Life (*200g):	50 minutes at 25°C
Mixing: Mix separate components thoroughly before adding together.	
Mix Ratio 2 Parts "A" to 1 Part "B" (By Volume)	

## APPLICATION DATA (CONTINUED)

Environmental conditions			
Temperature Range:	45-120°F 7-49°C		
Max Relative Humidity:	90% at 70°F		
Surface Temperature:	>5°F above dew point		
Drying time (ASTM D1640) at 50-90% RH			
Curing Time			
	90°F	70°F	50°F
To Touch	4hr	6-7hr	9hr
Max Chemical resistance	48 hours		
Thinner	None		
Equipment Cleaner	Solvent		

## PHYSICAL DATA

Finish:	Med - High Gloss		
Color:	Pigmented		
Components:	Two		
Curing Mechanism:	Chemical reaction		
Volume Solids:	100%		
Dry Film Thickness:	20-80 Mils per Coat		
Total Coats:	2 Minimum		
Theoretical Coverage			
Mils	Ft <sup>2</sup> / Gal		
20 Mils:	80		
40 Mils:	40		
VOC:	N/A		
Temperature limits:	200°F (wet), 350°F (dry)		
Flashpoint (SETA):	N/A		

## SHIPPING DATA

Packaging:	3/4 Gal Kits, 3.5 Gal Kits
Shelf Life (indoors @ 40-100°F):	12 Months

## CHEMICAL RESISTANCE

Summarized; for a more comprehensive list of chemical resistance, please refer to our Product Resistance Data Guide. Films cured for 7 (seven) days at 77°F are unaffected after 1 (one) year immersion at ambient temperatures.

- Alum	- Sodium Hydroxide, 50%
- Aluminum Chloride, 29%	- Trichloroethane
- Bleach	- Water, distilled
- Lactic Acid, 10%	- Xylene
- Sulfuric Acid, 10%	

## GENERAL LIMITATIONS

Do not apply over a wet surface.

Epoxies have limited ultraviolet resistance which may cause them to chalk, lose gloss, and / or discolor over time.

Touchup or repair of an existing coating is never aesthetically perfect.

Depending on mix design and curing / drying conditions, minimum age of concrete prior to application is 28 days.

## SAFETY

For your safety, all required personal protection equipment should be used when operating machinery or handling chemicals. Concrete dust is a source of silica particles and other hazardous materials that can cause silicosis and other illnesses. Proper safety equipment and methods are the responsibility of the installation company, general contractor, and/or facility owner.

## WARRANTY

Wolverine Coatings Corporation warrants its products to be free from defects in material and workmanship. Wolverine Coatings Corporation's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Wolverine Coatings option, to either replacement of products not conforming to this Warranty or credit to the Buyer's account in the invoiced amount of the nonconforming products. Any claim under this warranty must be made by the Buyer to Wolverine Coatings in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the ship date, whichever is earlier. Buyer's failure to notify Wolverine Coatings of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

Wolverine Coatings makes no other warranties about the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by Wolverine Coatings, whether in its technical literature, or in response to specific inquiry or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedure of use, or extrapolation of data may cause unsatisfactory results.

## LIMITATION OF LIABILITY

Wolverine Coatings Corporation's liability on any claims based upon Wolverine Coatings Corporation's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or parts thereof which give rise to the claim. In no event shall Wolverine Coatings Corporation be liable for consequential or incidental damages.

## LITERATURE REVISION - TDS: ChemShield 1684 - Rev. 191203

Published literature is subject to change without notice. Wolverine Coatings Corporation is constantly engaged in the testing of existing formulations, the development of new innovative technologies, and the evaluation of the latest practices. The latest literature should always be consulted at [www.wolverinecoatings.com](http://www.wolverinecoatings.com).



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