



# ChemShield 1831

## Product Information Bulletin

### PRODUCT DESCRIPTION

ChemShield 1831 is a sprayable, 100% solids, A.H.C. (Advanced Hybrid Cycloaliphatic) Ceramic Phenolic Novolac Epoxy lining which exhibits excellent resistance to organic solvents, caustic environments, and dilute acidic exposures. The integration of flakeglass reinforcements also gives the coating excellent resistance to permeation and very good abrasion resistance. ChemShield 1831 is well suited for sewage pipe, treatment plants, petroleum refining and storage, and chemical plants using mineral acids such as phosphoric acid plants, hydro metallurgy, and metal plating facilities.

### 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 coating, 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 Material Safety Data sheet carefully before use. Safety precautions in the MSDS should be carefully followed during storage, handling and use. Improper use and handling can be hazardous to health and cause fire or explosion.

### PHYSICAL DATA

Finish	Med - High gloss	
Color	Pigmented	
Components	Two	
Curing Mechanism	Chemical reaction	
Volume Solids	100%	
Dry Film Thickness	40-80 Mils per coat	
Total Coats	2 Minimum	
Theoretical Coverage	<u>Ft<sup>2</sup>/lb</u>	<u>M<sup>2</sup>/kilos</u>
20 Mils	7.2	1.48
40 Mils	3.6	0.72
VOC	N/A	
Temperature limits	200°F (wet), 350°F (dry)	
Flashpoint (SETA)	N/A	

### APPLICATION DATA

Substrate/s: 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 or conventional spray, roller or brush

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### APPLICATION DATA (CONT.)

Mix Ratios	2 Parts A to 1 Parts B		
NOTE:	Mix separate components thoroughly before adding together.		
Pot Life	20 minutes at 25°C		
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			
To Touch	<u>90°F</u> 4 hr	<u>70°F</u> 6 hr	<u>50°F</u> 9 hr
Max Chemical resistance	48 hours		
Thinner	None		
Equipment Cleaner	Solvent		

### SHIPPING DATA

Packaging	5 gal units
Shelf Life (indoors @ 40-100°F)	12 Months

### 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 delivery 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 express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Wolverine Coatings be liable for consequential or incidental damages.

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 part thereof which give rise to the claim. In no event shall Wolverine Coatings Corporation be liable for consequential or incidental damages.

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