ChemShield 1812

(Renamed ChemShield 1712)
Technical Data Sheet (TDS)

PRODUCT DESCRIPTION

ChemShield 1812 is a sprayable, 100% solids, high functionality, APN (Aliphatic Phenolic Novolac) binder which has excellent chemical resistance; including resistance to organic solvents, gasolines, caustic environments, and acidic exposures. ChemShield 1812 is well suited for sewage pipe, treatment plants, petroleum refining and storage, and chemical plants.

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
Gel Time (*200g):	10-20 minutes at 25°C
Mixing: Mix seperate 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:	70% 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	<2 hr	2-3 hr	9 hr

Max Chemical resistance	48 hours
Thinner	None
Equipment Cleaner	Solvent

PHYSICAL DATA

Finish:	Med - High Gloss
Color:	Clear
Components:	Two
Curing Mechanism:	Chemical reaction
Volume Solids:	100%
Dry Film Thickness:	5-20 Mils per Coat
Total Coats:	1 Minimum

Theoretical Coverage	
Mils	Ft^2/ Gal
5 Mils:	320
20 Mils:	80

VOC:	N/A
Temperature limits:	200°F (wet), 350°F (dry)
Flashpoint (SETA):	N/A

SHIPPING DATA

Packaging:	5 Gallon Units
Shelf Life (indoors @ 40-100oF):	12 Months

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 1812 - 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.

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