

## PRODUCT DESCRIPTION

ChemShield 1710 is a 100% solids, high functionality, APN (Aliphatic Phenolic Novolac) binder which has excellent resistance to thermal shock and chemicals; including resistance to organic solvents, gasolines, caustic environments, and acidic exposures. ChemShield 1710 is well suited for sewage pipe, treatment plants, petroleum refining and storage, and chemical plants. This versatile binder can be used with aggregate as a troweled mortar, decorative quartz or flakes as a broadcast binder, or a sealer. For an Antimicrobial version of this product please see ChemShield 1710AM.

## 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
Application Method:	Airless spray, trowel, roller, or brush
Induction Period:	None
Mixing: ChemShield 1710 is packaged in pre-measured containers consisting of Resin Part A and Hardener Part B which must be mixed together before use.	
Mix Ratio 2 Part "A" to 1 Part "B" (By Volume)	

## APPLICATION DATA (CONTINUED)

Application Environmental conditions	
Temperature Range:	50-120°F
Relative Humidity:	N/A
Surface Temperature:	50-120°F

Thinner	None
Equipment Cleaner	MEK

PROPERTY	VALUE	TEST METHOD
Components:	Two	N/A
Volume Solids:	100%	N/A
Total Coats:	1 or more	N/A

## SOLID (CURED) PHASE PHYSICAL DATA

PROPERTY	VALUE	TEST METHOD
Finish:	65 Semi-Gloss	ASTM D523
Color:	Resin: CL1A Hardener: CL3A	ASTM D1544
Elongation:	37%	ASTM D638
Hardness:	Shore D(24 hrs): 56 Shore D(Final): 60	ASTM D3363
Abrasion Resistance (taber):	80-90 mg ( 1000g per arm/1000 cycles)	ASTM D4060
Bond Strength (concrete):	BLOT (Concrete fails)	ASTM D4541
Bond Strength (steel):	700-750 psi	ASTM D4541
Coefficient of Friction	SCOF	ASTM D2047
Impact Resistance (in./lbs/)	Direct: .88 ft./lbs. Indirect: 50 ft./lbs.	ASTM D5420

Theoretical Coverage		
Mils	Ft <sup>2</sup> / lb	M <sup>2</sup> / kilos
5 Mils Wet:	320*	-
10 Mils Dry:	160*	-

## LIQUID PHASE PHYSICAL DATA

Density:	Resin	lbs./Gallon	9.3641
	Hardener	lbs./Gallon	8.5935
	Mixed	lbs./Gallon	9.1218

Curing Time (@50% RH) (ASTM D4541)			
	95°F	77°F	50°F
A	10-15 min	30 min-1 hr	3-4 hr
B (Tack Free)	15-30 min	2-3 hr	4-5 hr
C (Light Duty)	40 min-1 hr	3-4 hr	9-10 hr
D (Through)	1.5-3 hr	4-6 hr	14-18 hr
Full	2-3 days	4-5 days	5-7 days

Recoat: (@ 77°F / 50% RH)	Minimum Recoat Time	6 hr
	Maximum Recoat Time	48 hr

PROPERTY	VALUE	TEST METHOD
Volume Solids:	100%	ASTM D2369
VOC:	0	ASTM D3960
Viscosity (cps): (@ 77°F / 50% RH)	800 @ 0.5 rpm 500 @ 5.0 rpm 490 @ 10 rpm 474 @ 50 rpm	ASTM D2196

## LIQUID PHASE PHYSICAL DATA (CONTINUED)

Flashpoint:	Part A: 180.5°C Part B: 116.5°C	ASTM D3278 Setaflash
Pot Life (@ 77°F/50% RH):	25-30 Minutes	ASTM 2471
Thixotropic Index Mix:	1.05	N/A

## SHIPPING DATA

Packaging:	3 Quart Kit, 3 Gal Kit, 15 Gal Kit
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## STORAGE

Shelf Life (indoors @ 65-90°F):	1 year from date of manufacture (factory sealed)
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Do not open containers until ready to use. Keep sealed containers in a cool, dry place. Avoid contact with sources of extreme hot or cold temperatures as well as direct sunlight. Containers should be stored at 65°F to 95°F. Shelf life is one (1) year if exposed to the above conditions.

## GENERAL LIMITATIONS

Do not apply directly to concrete. Must be primed with epoxy primer first.

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

Exceeding recoat window or contamination may cause disbonding, fish eyes, and / or crawling.

## 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 1710 - Rev. 250129** 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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