

PRODUCT DESCRIPTION

ChemShield 1104 is a thin-film, 100% solids reinforced, propriety formulated epoxy-based polymer designed for general use as a primer and sealant for concrete, cinder block, fiberglass, and steel. ChemShield 1104 is a two-component system; Resin and Hardener.

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 INFORMATION

Method: Roller or brush.	
Minimum Temperature of Application (Air): 45 °F, otherwise force curing is required.	
Thinning:	Not recommended or desired.
Handling: Store at moderate temperatures (65-85°F) prior to product application for ease of handling and mixing. Additional heating may be required and is recommended for spray application.	
Mixing: Mechanically pre-mix each component; add the hardener into the resin and then mix the combined compound at 400-600 rpm for 3 to 4 minutes.	
Surface Preparation: All surfaces shall be clean and dry, free of dust, dirt, oil or any other foreign matter. Steel surfaces shall be abrasive blasted to SSPC SP-5, or NACE #1 "white metal" finish with a minimum 3.5 mil surface profile. Concrete surfaces shall be abrasive blasted to remove all laitance and other surface contaminants. For additional information regarding surface preparation specifications and techniques, please contact our technical services department.	

TECHNICAL DATA

Weight, lbs/gal	9.9 +/- 0.5
Recommended Thickness, Mils DFT	5 - 10
Theoretical Coverage, mils sq.ft./gal	1600
VOC Content (mixed), g/l	0
Flash Point (mixed), °F	>200
Mix Ratio (weight/volume)	2 Parts "A" to 1 Parts "B"
Pot Life, minutes (@ 77°F / 50% RH)	25
Color(s)	Light Gray

Coverage to Achieve Dry Film Thickness, sq.ft./gal.	
Mils	Ft / lb
5 Mils:	320
10 Mils:	160
(Actual - allow for approximate loss of 10%)	

Drying Time (@ 77°F at 50% RH)	
To Touch:	3 - 5 hours
To Handle:	5 - 8 hours
To Recoat:	3 - 5 hours

TECHNICAL DATA (CONTINUED)

For Immersion Service: (@ 77°F at 50% RH)	24 - 36 hours
*Force curing is required for low temperature applications to expedite curing process.	

TYPICAL USES

* Industrial and domestic waste water tanks, basins, and sumps.
* Swimming pools, spas and other aquatic environments
* Concrete, cinder block and masonry structures used in car wash tunnels

BENEFITS

* Easy to install, roller or spray-applied monolithic application process
* Flexible to reduce coating stress caused by physical, thermal, or mechanical forces
* Excellent adhesion to concrete, & steel substrates
* Seals and protects concrete surfaces against degradation caused by exposure to water
* Promotes adhesion of topcoat and substrate
* Abrasion and impact resistant
* VOC compliant

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.

- Ammonium Hydroxide (mild)	- Sodium Bicarbonate
- Benzene	- Sodium Chloride (20%)
- Brine Solution	- Sodium Hydroxide (10%)
- Calcium Chloride	- Sodium Phosphate (50%)
- Detergents, diluted	- Starch
- Gasoline, all grades	- Sulfuric Acid (10%)
- Hydrochloric Acid (mild)	- Water, distilled
- Mineral Spirits	- Water, salt (20%)
- Oil (animal, vegetable)	- Water, waste
- Oil (petroleum)	

SHIPPING DATA

Packaging:	3 Gal Kits, 15 Gal Kits, 152.5 Gal Kits
DOT Class (Resin) - Non regulated	
DOT Class (Hardener) - Paint Related Material, 8, DOT Number UN 3066, III	

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 1104 - Rev. 250121

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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