

PRODUCT DESCRIPTION

ChemShield 1601 is a 100% solids, two-component AHC (Advanced Hybrid Cycloaliphatic) epoxy primer which exhibits excellent adhesion and flexibility. The coating's uses include priming and sealing concrete where chemical resistance is necessary. ChemShield 1601 provides an excellent bonding surface for other Wolverine Coatings Corporation low temperature cure products.

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: | Shot Blasted concrete, steel |
| Surface Preparation | |
| Steel | SSPC-SP5 Abrasive Blast |
| Concrete | ASTM D4258 |

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| Application Method: | Airless or conventional spray, Roller or brush |
| * Consult Wolverine Coatings Corporation's technical department for information on spray application. | |
| Gel Time: | 30 minutes (125g @ 70°F / 50% RH) |
| Induction Period: | None |
| Mixing: Primers are packaged in pre-measured containers consisting of Resin Part A and Hardener Part B which must be mixed together before use | |
| Mix Ratio: | 2 Parts "A" to 1 Part "B" (By Volume) |

APPLICATION DATA (CONTINUED)

| Environmental conditions | |
|---------------------------------------|-------------|
| Temperature Range: | 35-120°F |
| Max Relative Humidity: | 90% at 70°F |
| Surface Temperature: | 40-100°F |
| Drying time (ASTM D1640) at 50-90% RH | |

| Curing Time (@ 50% RH) | | | |
|------------------------|------|---------|---------|
| | 90°F | 70°F | 50°F |
| Tack Free | NT | 8hr | NT |
| Overcoat | NT | 12-24hr | NT |
| Through | NT | 24hr | 12-18hr |

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|-------------------------|----------|
| Max Chemical resistance | 4-7 days |
| Thinner | None |
| Equipment Cleaner | MEK |

PHYSICAL DATA

| | |
|---------------------|-------------------|
| Finish: | Gloss |
| Color: | Transparent Amber |
| Components: | Two |
| Curing Mechanism: | Chemical reaction |
| Volume Solids: | 100% |
| Dry Film Thickness: | 5 mils (minimum) |
| Total Coats: | 1 or more |

| Theoretical Coverage | |
|----------------------|-----------------------|
| Mils | Ft ² / Gal |
| 1 Mils: | 1604 |
| 5 Mils: | 320 |
| 10 Mils: | 160 |

| | |
|---------------------|-------------|
| VOC: | 0 |
| Temperature limits: | 200°F (wet) |
| Flashpoint (SETA): | N/A |

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% | |

SHIPPING DATA

| | |
|----------------------------------|-----------------------------|
| Packaging: | 3-Quart Kits, 3-Gallon Kits |
| Shelf Life (indoors @ 40-100°F): | 12 Months |

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 1601 - Rev. 250123

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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