ChemShield 5232

ISOPHTHALIC POLYESTER COATING SYSTEM

These unique high performance coatings are heavy-duty chemically resistant **systems** for protection against general chemical exposures and immersion service.

ChemShield 5232 utilizes 1/64-inch chemical grade glass flakes, thus offering the desired flexibility, impermeability, application time, and abrasion resistance for maximum performance. Other 5200 Series Products Include sealer and putty. This formula is available in winter (low temperature) and summer (high temperature) versions for extreme conditions.

TYPICAL APPLICATIONS

ChemShield 5232 can be used for structural steel protection, steel maintenance coating, helicopter pads, offshore structures, and for protection against salt-water spray.

CHARACTERISTICS

The ChemShield 5200 Series is a custom designed coating system that is suitable for specific environmental exposures. The flake glass content provides a low vapor transmission rate with 7.7 times more protection than normal Isophthalic Polyester Coatings. This gives the coating an extremely high corrosion and chemical resistance in recommended uses. User friendly ChemShield 5232 Series is easily repaired by recoating.

APPLICATION INSTRUCTIONS

Surface Preparation

All surfaces must be clean and free of dirt, contaminants, and completely dry.

Steel – Non-Immersion: Abrasive blast, SSPC-SP10 Near White Metal Blast to achieve minimum 3 mils (75 microns) profile as determined with a Keane-Tator Surface Profile Comparator or similar instrument.

Steel – Immersion: Abrasive blast, SSPC-SP5 White Metal Blast to achieve minimum 3 mils (75 microns) profile. Use a suitable air dryer capable of 35ºF dew point air output for all sand-blast compressed air. Welds should be continuous with no skip-welds on overlapping steel surfaces. Round off rough weld and sharp edges; remove weld spatter.

Concrete: Light abrasive blast to remove all previous coatings, chalk, and surface glaze of laitance, or acid etch to achieve a glaze-free surface with a slightly granular texture (ASTM D4259, ASTM D4260). Concrete surfaces must be primed with a suitable Concrete Primer. Refer to Wolverine Coatings Corporation Data Sheets.

Application Equipment The following is a guide, and suitable equipment from other manufacturers may be used. Changes in pressure and tip size may be needed for proper spray characteristics.

Airless Spray: Standard equipment such as Graco President 45:1 with filter and surge tank removed. Graco 'Silver Gun' (208-327) with .035 Twist-Tip/Reversaclean or Titan (341-049) spray tip. Use the following airless hose diameters:

25 ft (7.62 mm) or less…….3/8 inch (10 mm)
50 ft (15.24 mm)…….. 1/2 inch (12.5 mm)

Conventional Spray: Industrial equipment such as Binks 18 or 62 spray guns with 69E x 69PA or Binks 7E2 spray gun with a 38VT x 38PM nozzle and 54-1219 needle. Five or ten gallon conventional spray pot with bottom outlet and agitator. Material hose up to 50 ft (15.24 M) should be ½ inch (12.5 mm) with PVA or nylon liner (such as Binks Fluidall). Neoprene, Buna-N, or natural rubber hose are not recommended.

Brush / Roller: Coating can be brush applied or poured on surface and spread with a roller.

Power Mixer: Jiffy Mixer powered by an air motor or an explosion proof electric motor.

TYPICAL PHYSICAL DATA

Finish……..Flat

Colors……White, Green, Gray

Components……Two

Curing Mechanism…….Chemical Reaction

Recommended Minimum
Dry Film Thickness……40 Mils

Coats……Two @ 20 Mils minimum

Theoretical Coverage
@ 40 Mils……40 ft^2 / gal

Volume Solids (calculated)……100%

Temperature Resistance
Dry (Continuous) ºF/ºC……300/149
Wet (Immersed) ºF/ºC……200/93

Flashpoint (CC)
Resin ºF/ºC……89/31
Catalyst ºF/ºC……140/60

Applied Over ……Steel or Primed Concrete

Primer……WCC Concrete Primer

Pot Life

ºF/ºC	90/32	70/21	50/10
Hrs	½	1½	4

Surface Prep…See Application Instructions

Curing Time

ºF/ºC	90/32	70/21	50/10
Hrs	3	8	20

Recoat Minimum Hrs……3, 8, 20

Curing Time - Immersion

ºF/ºC	90/32	70/21	50/10
Hrs	6	12	28

Shipping Data……Packaged 5 gal, 55 gal

Shelf Life
Stored Indoors @ 40ºF to 75ºF Max……

Application Procedure

1. Flush all equipment with Acetone/Xylene Blend cleaner or equal before use. Ground all metal product containers.
2. Stir each component thoroughly, then add catalyst to resin and mix until uniform. Do not mix more material than will be used within the listed pot life for the given temperature. DO NOT ALLOW MIXED MATERIALS TO STAND IN DELIVERY HOSES EXPOSED TO THE SUN AS HIGH TEMPERATURES WILL CAUSE PRE-MATURE GELLING.
3. DO NOT ADD THINNERS.
4. Apply wet coat in even, parallel passes with 50 percent overlap. Cross spray at right angles if needed forn continuous film without bare spots, pinholes, or holidays. Coating thickness: minimum 20 mils/coat.

Environmental Application Limitations

Keep all equipment and material out of direct sunlight.

Temperature	ºF	ºC
Air	50 to 120	10 to 49
Surface	50 to 140	10 to 60
Material	50 to 90	10 to 32

Surface temperatures must be at least 5ºF (3ºC) above dew point to prevent condensation.

SAFETY PRECAUTIONS

OSHA and the EPA classify this material as hazardous due to its flammability and health hazards. Keep away from heat, sparks and open flame. Vapor and/or spray mist can be harmful necessitating the use of an appropriate respirator in certain circumstances. Use appropriate protective eyewear and protective clothing and gloves. Refer to Material Safety Data Sheet before using this product.

WARRANTY

Wolverine Coatings Corp. warrants its products to be free from defects in material and workmanship. Wolverine's sole obligation and Buyer's exclusive remedy in connection with products shall be limited, at Wolverine's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount for the non-conforming products. Any claim under this Warranty must be mad by Buyer to Wolverine Coatings Corp. 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 Corp. of such non-conformance as required herein, shall bar Buyer form recovery under this Warranty. Wolverine Coatings Corp. makes no other warranties concerning the products. 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 Corp.be liable for consequential or incidental damages.

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