Protective & Marine Coatings

CORROPIPE 3000 SF MEDIUM GREY

NSF/ANSI/CAN 61
Meets Health Effects Requirements of NSF/ANSI/CAN 600

February 13, 2023 – Issue 1

PRODUCT INFORMATION

PRODUCT DESCRIPTION

CORROPIPE 3000 is a two component, quick setting, 100% solids aromatic polyurethane designed to protect pipelines from corrosion, abrasion and impact as both an exterior coating and interior lining. It can be sprayed in a single coat application at varying temperatures and film thicknesses. CorroPipe 3000 is also suitable for more demanding pipeline applications, such as slip bore, jack and post and horizontal directional drill projects. It is available in several set speeds to accommodate a range of both automated and manual application requirements.

PRODUCT CHARACTERISTICS

Colors: Medium Grey
For additional color options, contact your Sherwin-Williams representative.

Mix Ratio: 1A:1B by volume

Volume Solids: 100%, mixed

VOC (ASTM D2369-10): 0.0 lb/gal

Theoretical Coverage: 1604 ft²/US gal/mil (1000 m²/liter/micron)

Drying Schedule:

	@ 70°F/20°C
Initial setting time*:	<5 minutes
Cure time before handling:	>20 minutes
Recoat time:	<1 hour
Ultimate cure:	>7 days

*Standard set time ranges include Snap Set (SS) and Snap Fast (SF). Please contact your Sherwin-Williams representative for additional details and recommendations.

Drying time is temperature, humidity, and film thickness dependent.

Shelf Life: 12 months, unopened
Store indoors at 50°F (10°C) to 100°F (38°C). Do Not Freeze. Product will react with humidity and moisture. Keep containers tightly sealed.

Clean Up: M.E.K. or
50/50 blend of M.E.K./Xylene

APPROVALS, COMPLIANCE AND LISTINGS

- AWWA C222-18 compliant
- British Standard EN 10290 compliant
- NSF 61/600 compliant for Potable Water Pipe (Diameters =>4" COLD 23, max DFT 120 mils/3000 microns, Immediate Return-to-Service)*
- NSF 61/600 compliant for Potable Water Pipe (Diameters =>16" D.HOT, max DFT 120 mils/3000 microns, Immediate Return-to-Service)*

*NSF 61/600 listing info per UL. Approved PW lining colors per UL Listing.

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060 (CS17 Taber, 1kg weights, 1000 revolutions)	<45 mg
Accelerated Weathering	ASTM G154 (25 hours)	No cracking; some chalking and darkening
Adhesion to Steel	ASTM D4541 (SSPC-10)	24 hour: >1,500 psi
Chemical Resistance	ASTM D543	Consult your Sherwin-Williams representative
Dielectric Strength	ASTM D149	>600 volts per mil
Flexibility	ASTM D522	>180° over 3" mandrel
Hardness	ASTM D2240 Shore D	75 ± 5
Impact Resistance	ASTM D2794 (20 mils)	120 in. lbs ± 15 in. lbs
Resistance to Cathodic Disbondment	CSA Z245 (65°C, 48 hours, 20 mils)	<8 mm average results
Water Absorption	ASTM D570	<1.5%

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APPLICATION BULLETIN

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

1) Proceed only if the substrate temperature is more than 3°C (5°F) above the dew point temperature during surface preparation and coating application.

2) Abrasive blast clean with an angular media (sand, aluminum oxide, garnet, steel grit; G40 or coarser). DO NOT USE steel shot or non-angular media. Only copper slag-based media complying with SSPC – AB1, Type II, Class A, Grade 4 is acceptable. For steel surfaces, blast to a Near White Blast (SSPC-SP10; NACE 2; SA 2.5):
- minimum 3.0 mil (75 microns) profile for immersion;
- minimum 2.5 mil (65 microns) profile for buried;
- minimum 2.0 mil (50 microns) profile for atmospheric service.

Ductile Iron Pipe, Atmospheric Service:
Minimum surface preparation is Power Tool Clean per NAPF 500-03-03. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

Ductile Iron Pipe, Buried and Immersion Service:
Minimum surface preparation is Abrasive Blast Cleaning per NAPF 500-03-04. Ductile iron pipe external surfaces, in some cases, can be damaged by excessive abrasive blast cleaning beyond this standard. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

Ductile Iron Fittings:
Minimum surface preparation is Abrasive Blast Cleaning of Cast Ductile Iron Fittings per NAPF 500-03-05. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

For **concrete** surfaces, abrasive blast to remove any laitance. A primer or rendering material may be required to fill in any visible holes or cracks in the concrete surface.

3) See Application Instructions for details.

4) For galvanized steel please contact your Sherwin-Williams representative.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

APPLICATION CONDITIONS

Temperature: -40°F (-40°C) to 140°F (60°C)

APPLICATION

1) Agitate components thoroughly before use. Do not thin. Do not mix part A and B together. Caution: Do not agitate materials at high speed or in a manner that would mix in air or moisture in to the products. Both components should be preheated prior to or during mixing, at temperatures detailed below.

2) Spray apply using plural component proportioning equipment with a direct impingement spray gun or application head, at a 1:1 mix ratio. Apply product within temperatures and pressures as detailed below.

3) Suggested settings for application allowing for adjustments due to varying ambient and substrate temperatures:

Set-up Parameters	Range	Nominal
Supply Temperature	70°F (21°C) - 110°F (43°C)	90°F (32°C)
Spray Temperature	110°F (43°C) - 140°F (60°C)	120°F (49°C)
Spray Pressure	Psi: 1800-2400 Bar: 124-165	Psi:2000Bar:138

4) High film thickness can be obtained in one continuous coating operation, using one of several techniques. Contact your Sherwin-Williams representative for detailed instructions.

5) For coating on a conveyor line, a uniform pipe temperature between 10°C (50°F) and 55°C (130°F) is required to enable the coating to cure quickly. Note that lower ambient and/or substrate temperatures will slow the coating curing speed.

6) A second coat may be applied over the first, so long as it is applied within the recoat window. Otherwise, it will be necessary to roughen the surface to ensure good intercoat adhesion. Contact your Sherwin-Williams representative for detailed information on recoat windows.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with M.E.K. or 50/50 blend of M.E.K./Xylene. Clean tools and equipment immediately after use (including both A and B sides of plural component spray system) with M.E.K. or 50/50 blend of M.E.K./Xylene.

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.