



TECHNICAL DATA SHEET – PROTEC II GW

Revised: 05/2018

PRODUCT DESCRIPTION

A 100% solids, two component urethane lining and coating. It provides long-term corrosion protection with outstanding adhesion to steel. It is designed as a cold-cure, hand-applied coating for girth welds, touch-up and repair areas on steel pipe.

FEATURES

- Excellent adhesion directly to steel, no primers required
- Zero VOC, no solvent odors
- Tough, abrasion resistant coating
- Meets AWWA C-222 requirements
- White complies with NSF/ANSI Standard 61
- Easy to mix and apply
- High-build, one coat application
- Fast cure to backfill time

RECOMMENDED USES

For use on properly prepared steel for girth welds, touch-ups, smaller areas of application and fixtures.

PRIMERS

Steel: None required.

TYPICAL PROPERTIES

SOLIDS BY VOLUME	100%
VOLATILE ORGANIC COMPOUNDS	0.0 lb/gal (0 g/l)
THEORETICAL COVERAGE	1604 ft ² /gal @ 1 mil (3.8 m ² /gal @ 1 mm)
RECOMMEND DFT	40 – 60 mils (0.5 – 1.5 mm)
NUMBER OF COATS	1
MIX RATIO (BY VOLUME)	1"A": 1.825"B"
SHELF LIFE @ 60-90°F (16-32°C)	Part A 12 months Part B 12 months
COLOR	Gray,White

SPECIFICATION DATA

ELONGATION – ASTM D 412	< 30%
ADHESION – ASTM D 4541	> 3200 psi
ABRASION RESISTANCE ASTM D 4060 CS 17	88.5 mg loss
TENSILE STRENGTH – ASTM D 412	4000 psi
IMPACT RESISTANCE ASTM G 14 – 15 MM BALL	>150 in-lbs
HARDNESS – ASTM D 2240	79 Shore "D"
DIELECTRIC STRENGTH – ASTM D 149	>400 volts / mil
FLEXIBILITY 180° BEND OVER 3" MANDREL	No Cracking or delamination
WATER ABSORPTION – ASTM D 570	1.37%
CATHODIC DISBONDMENT – ASTM G 95 – 07	6 mm

PROTEC II GW

PIPE COATING



ORDERING INFORMATION

Table with 2 columns: PACKAGING, 1 gallon kit

SURFACE PREPARATION

Remove all oil, grease or other contaminants from the surface to be coated in accordance with SSPC-SP 1.

Steel and Cast Iron: Abrasive blast to SSPC-SP-10 Near White and obtain a 3-4 mil (75-100 μ) sharp and aggressive angular anchor pattern.

Existing Coatings: Dull the gloss and roughen the existing coating by blasting or power abrading. Feather edges into existing coating system a minimum of 2 inches. Wipe the area with clean MEK and coat as soon as the surface is dry.

Other: Contact ITW Polymers Sealants North America, Inc. for specific surface preparation and primer recommendations.

MIXING

Add A side into B side and power mix for 1 minute or until uniform.

THINNING: DO NOT THIN

POT LIFE

Table with 2 columns: MATERIAL TEMPERATURE, TIME. Row: 75°F (24°C), 25 minutes

NOTE: Mix only enough material that can be used within the pot life shown.

APPLICATION CONDITIONS

Table with 4 columns: MATERIAL*, SURFACE, AMBIENT, HUMIDITY and 3 columns: NORMAL, MINIMUM, MAXIMUM

*Materials should be preheated to 75-90°F (24-32°C) prior to use. Surface temperature must be 5° F (3° C) above the dew point. Brush and roll – ONLY! Roller: medium or short nap with phenolic core.

CLEAN UP

Use MEK or a 1:1 mix of MEK/Toluene.

CURE TIME

These times are based on a 30-50% RH. Excessive film thickness, cooler temperatures or inadequate ventilation will require longer cure times and could result in premature failure.

SURFACE TEMPERATURE

Table with 4 columns: DRY-TO-TOUCH, DRY-HARD, FULL CURE and 3 columns: 65°F (18°C), 75°F (24°C), 110°F (43°C)

RECOAT WINDOW

These times are based on a 30-50% RH. Excessive film thickness, cooler temperatures or inadequate ventilation will require longer cure times and could result in premature failure. When exceed maximum recoat window, please contact with ITW Polymers Sealants North America, Inc.

MATERIAL TEMPERATURE

Table with 4 columns: MINIMUM, MAXIMUM and 3 columns: 65°F (18°C), 75°F (24°C), 110°F (43°C)

SAFETY INFORMATION

- Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information.
• Do not apply material in enclosed areas without adequate air exchange and ventilation.
• All application personnel must use respirators or fresh air hoods.
• Wear protective clothing, gloves and eye protection.
• Breathing fumes or contact with the skin may cause severe allergic reactions.

This product is intended for industrial use by properly trained professional applicators only.

STORAGE CONDITIONS

Coatings need to be protected from moisture contamination. Store materials in a dry location at 55-80°F (11-27°C). Materials must be kept above 50°F (10°C).

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