



TECHNICAL DATA

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NSP 120 - PW HIGH PERFORMANCE EPOXY COATING ANSI/NSF STANDARD 61

Product Description

A two component, 100% solids, modified epoxy resin proprietary blended amine hardener for use as a coating or a repair touch-up material for PROTEC II PW in potable water immersion.

Features

- Meets ANSI/NSF Standard 61 requirements.
- Easy application – brush, roller or spray.
- No VOC's.
- Excellent chemical and abrasion resistance.
- Outstanding resistance to water and water vapor permeation.

Recommended Uses

As a coating or repair material for PROTEC II PW in potable water storage tanks and piping, wastewater applications, pipe joint coating and maintenance repairs.

Primers

Self Priming.

Typical Properties

Solids by Volume	100% ± 1
Volatile Organic Compounds	0. lb/gal (288 g/l)
Theoretical Coverage	1604 ft ² @ 1 mil (2.5 m ² @ 1 mm)
Recommend DFT	5 – 15 mils
Number of Coats	1 or 2
Mix Ratio (by volume)	2 part A -Resin 1 part B -Hardener
Shelf Life @ 60-90°F (16-32°C)	1 year
Color	White

Ordering Information

Packaging:	3 gal & 15 gal kits
Shipping Weight:	11.5 lb/gal (5.2 kg/gal)

APPLICATION INFORMATION

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Surface Preparation

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

PROTEC - Series: Abrade areas to be coated by sweep-blasting or mechanically sanding and grinding to dull any gloss and leave visible scratches.

STEEL: Abrasive blast to a Near-White Blast in accordance with SSPC-SP 10, Obtain a 2.0 to 3.0 mil, angular surface profile.

Mixing

Power mix each component separately, then combine at a ratio of 2 parts "A" to 1 part "B" by volume and power mix to a smooth consistency. To ensure complete mixing, scrape sides and bottom of container and continue mixing for additional 1 or 2 minutes.

Thinning

Normally not required.

Pot Life

Material Temperature	Time
77°F (25°C)	30 Minutes

Application Conditions

	Normal	Minimum	Maximum
Material	75-90°F (24-32°C)	50°F (10°C)	95°F (35°C)
Surface	75-90°F (24-32°C)	50°F (10°C)	110°F (43°C)
Ambient	75-90°F (24-32°C)	50°F (10°C)	110°F (43°C)
Humidity	30-50%	0%	85%

Surface temperature must be at least 5°F (3°C) above the dew point.

Application Equipment

Airless:

Pump Ratio	45:1 min	Tip Size	.023-.027"
Material Hose*	3/8" ID min 100' max	Tip Pressure psi	2800-3800

Brush: Use a short bristle brush using full strokes. Avoid re-brushing

Roller: Use a short nap phenolic core roller using full strokes. Avoid re-rolling.

Clean Up

Use MEK or a 1:1 blend of MEK and Toluol.

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.

	<u>Surface Temperature</u>		
	50-69°F (10-21°C)	70-89°F (21-32°C)	90-110°F (32-43°C)
Surface dry	8 hours	2 hours	1½ hours
Hard Film	24 hours	18 hours	12 hours
Recoat (min)	14 hours	12 hours	8 hours
Recoat (max)	4 days	2 days	1 day
Full cure	10 days	7 days	5 days

- If the material has exceeded its maximum recoat time by less than 24 hours wipe with MEK and recoat within 10 minutes.
- If the maximum recoat time has been exceeded by more than 24 hours' contact ITW Futura Coatings for recommended recoat procedures.

Safety Information

- Read the Material Safety Data Sheet (MSDS) 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 rated for organic vapors, or in confined spaces wear fresh air 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

- Epoxy coatings need to be protected from moisture contamination. Store drums and pails in a dry location at 55-80°F (11-27°C).
- Materials **must** be kept above 50°F (10°C).

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