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## MACROPOXY® 400 EPOXY ZINC PHOSPHATE

Revised: March 10, 2020

### **PRODUCT DESCRIPTION**

MACROPOXY 400 is a multi-functional epoxy zinc phosphate coating for the protection of carbon steel.

#### INTENDED USES

- Suitable for the protection of structural steel in a wide range of environments including marine, heavy industrial, and C1 to C5 as defined in ISO12944
- · Primer for structural steel on blast cleaned steel for internal and external environments
- May be used as a high build intermediate coat as well as the final coat where a low sheen industrial and functional finish is required

PRODUCT DATA											
Finish:		Flat				Average Drying Times:					
Colors:	Light Gray, Dark Gray, Black, Red Oxide, and White			Touch:	<b>20°F (-7°C)</b> 3 hours	1.5 hours	1 hour	<b>100°F (38°C)</b> 45 minutes			
Volume Solids:		70% ± 3%, mixed			Handle: Recoat:	30 hours	15 hours	7 hours	4 hours		
VOC (EPA Metho Mix Ratio:	d 24):	<340 g/L; 2.8 lb/gal, mixed 7:1 by volume			minimum: maximum:	8 hours	5 hours	3.5 hours 7 days	2 hours		
Typical Thickness:					Sweat-in-time: none required						
Recommended Spreading Rate per coat:					Pot Life:	not ecommended*	2.5 hours	1.5 hours	1 hour		
		-	Mini	mum	Maxi	mum	*It is recommended that	at the product is	kept above 50°F	(10°C) for applic	ation and mixing.
Wet mils (microns)         5.0 (125)         12.0 (300)           Dry mils (microns)         3.5 (88)         8.4 (210)           ~Coverage sq ft/gal (m²/L)         133 (3.3)         320 (7.9)           Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft         1122 (27.5)           NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.			(210) (7.9)	Pot life is depende If maximum recoar Drying time is tem	t time is exce	eded, abrade	surface befo	0			
Shelf Life:	24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).					(38°C).					
Flash Point:	Part A: 75°F (24°C) Part B: 78°F (26°C)										
Reducer / Clean Up:	Xylene										
Weight:	13.1 ± (	0.2 lb/gal	l ; 1.57	7 Kg/L, r	nixed						

#### 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.

Minimum recommended surface preparation:							
Iron & Steel:	Atmospheric: SSPC-SP6/NACE 3, 2-3 mil (50-75 micron) profile						
Stainless & Galvanized Steel:	Atmospheric: SSPC-SP16, 1 mil (25 micron) profile						





Protective & Marine Coatings

# MACROPOXY® 400 EPOXY ZINC PHOSPHATE

APPLICAT	ION		APPLICATION CONDITIONS			
APPLICAT Airless Spray Pressure	ninimum (151 b 3 mm) d, up to 5% by v 7 bar) d, up to 5% by v istle d, up to 5% by v t be achieved in n with solvent ra d, up to 5% by v av be necessar	volume volume n one coat esistant core volume v <i>to giv</i> e	Temperature:         Air & Surface:       20°F (-7°C) minimum, 120°F (49°C) maximum         Material:       50°F (10°C) minimum, 95°F (35°C) maximum         At least 5°F (2.8°C) above dew point         Relative humidity:       90% maximum         APPROVALS         • BS476 Part 7 - Surface Spread of Flame         • DS2022 Ann and by D			
If specific application equipment is no equipment may be substituted.	t listed above, e	equivalent	Do not tint.			
RECOMMENDED	SYSTEMS		Strips aget all graviage wa	alda, and aborn angles to provent early		
Dry Film Thickness / ct.	<u>Mils</u>	(Microns)	failure in these areas.	elds, and sharp angles to prevent early		
Steel, Zinc Phosphate/Urethane To1 Ct.Macropoxy 4001-2 Cts. Acrolon 7300Steel, Zinc Phosphate/Polysiloxan1 Ct.Macropoxy 4001 Ct.Sher-Loxane 800Steel, Zinc Phosphate/Epoxy/Epox1 Ct.Macropoxy 4001 Ct.Macropoxy 6461 Ct.Macropoxy 4001 Ct.Acrolon 7300Steel, Zinc Phosphate/Epoxy/PolysiloSteel, Zinc Phosphate/Epoxy/Polysilo	3.0 2.0-4.0 <b>Topcoat, Atm</b> 3.0 4.0-6.0 <b>y Topcoat, Atm</b> 3.0 5.0-10.0 5.0-10.0 <b>ane Topcoat, A</b> 3.0 5.0-10.0 2.0-4.0 <b>ane Topcoat, A</b> 3.0 2.0-4.0	(75) (50-100) nospheric (75) (100-150) nospheric (75) (125-250) (125-250) (50-100) tmospheric (75) (100-150) (50-100)	Do not mix previously cata	lyzed material with new.		
1 Ct. Macropoxy 400 1 Ct. Macropoxy 646 1-2 Cts. Sher-Loxane 800 The systems listed above are represent use, other systems may be appropria WARRAN	te.	(75) (125-250) (100-150) product's	HEALTH AND SAFETY 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.			
The Sherwin-Williams Company warrants our p defects in accord with applicable Sherwin-William for products proven defective, if any, is limited to or the refund of the purchase price paid for the Sherwin-Williams. NO OTHER WARRANTY C	roducts to be free c is quality control proor replacement of the d defective product a: R GUARANTEE O	cedures. Liability lefective product s determined by F ANY KIND IS	The information and recommendat upon tests conducted by or on beha	SCLAIMER tions set forth in this Product Data Sheet are based if of The Sherwin-Williams Company. Such informa- th herein are subject to change and pertain to the ation. Consult your Sherwin-Williams representative Data Sheet.		