

Marine **Coatings**

Protective CARCLAD® MACROPOXY HS

PART A PART B B58-Y411 **SERIES B58VY411 CATALYST**

Revised: August 11, 2020

PRODUCT INFORMATION

PRODUCT DESCRIPTION

CARCLAD MACROPOXY HS is an epoxy mastic designed for application to properly prepared steel surfaces. It may be used as a one or two coat, direct-to-metal protective coating, or over a Macropoxy primer. It can be applied to marginally prepared surfaces.

- High build for good coverage on rough corners and edges
- Long term durability
- Corrosion resistant
- Resistant to many solvents and chemicals

PRODUCT CHARACTERISTICS

Finish: Semi-Gloss, 50+ units @ 60 degrees

Color: Black, Gray, White, and Boxcar Red

Volume Solids: 80% +/- 2% mixed, may vary by color

VOC (EPA Method 24):

Unreduced:

241 g/l; 2.0 lb/gal Oxsol 100 Exempt Solvent MEK: 290 g/l; 2.42 lb/gal Reducer #54: 268 g/l; 2.24 lb/gal Reduced (10%): Reduced (10%): Reduced (10%):

0.91 lbs HAPS / gal Coating Solids 0.91 lbs HAPS / gal Coating Solids Unreduced: Reduced: (Oxsol 100) 1.32 lbs HAPS / gal Coating Solids Reduced:

(MEK) 1.57 lbs HAPS / gal Coating Solids Reduced:

(Reducer #54)

Mix Ratio: 1:1 by volume

Recommended Spreading Rate per coat:

| | | Minimum | Maximum |
|-----------|--|---------|---------|
| Wet mils: | | 5.0 | 8.0 |
| Dry mils: | | 4.0 | 6.0 |
| | | | |

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils wet @ 50% RH:

| | @ 50°F | @ 77°F | @ 100°F |
|-------------|----------|-----------|-----------|
| To touch: | 7 hours | 4 hours | 2-4 hours |
| To recoat: | | | |
| minimum: | 24 hours | 18 hours | 8 hours |
| maximum: | 30 days | 30 days | 21 days |
| To stencil: | 8 hours | 4-6 hours | 4 hours |
| To cure: | 10 days | 7 days | 3 days |

Do not apply below 50°F If maximum recoat time is exceeded, abrade surface before recoating

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

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|----------------|---|------------|-----------|--|
| Pot Life: | 6 hours | 2.5 hours | 2 hours | |
| | N/A | N/A | 3 hours* | |
| | N/A | N/A | 4 hours** | |
| Sweat-in-Time: | 30 minutes | 15 minutes | 5 minutes | |

*Reduced 10% Oxsol 100, exempt solvent

**Reduced 10% R7K111, exempt solvent

PRODUCT CHARACTERISTICS (CONT'D)

Shelf Life: 36 months, unopened

Store indoors at 40°F to 100°F

Flash Point: 105°F, PMCC, mixed

Reducer #54, Xylene, or MEK. Use Oxsol 100 (exempt Reducer / Clean Up:

solvent).

RECOMMENDED USES

Rail Cars

Tank Cars

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 SSPC-SP6, 2 mil profile

| Surface Preparation Standards | | | | | | | |
|--|---------------------------|--------------------------------|--------------------------------|-------------------------------|------------------|--|--|
| | Condition of Surface | ISO 8501-1 BS7079:A1 | Swedish Std. SIS055900 | SSPC | NACE | | |
| White Metal Near White Metal Commercial Blast Brush-Off Blast | | Sa 3 Sa 2.5 Sa 2 Sa 1 | Sa 3 Sa 2.5 Sa 2 Sa 1 | SP 5 SP 10 SP 6 SP 7 | 1 2 3 4 | | |
| Hand Tool Cleaning | Rusted Pitted & Rusted | C St 2 D St 2 | C St 2 D St 2 | SP 2 SP 2 | - | | |
| Power Tool Cleaning | Rusted Pitted & Rusted | C St 3 D St 3 | C St 3 D St 3 | SP 3 SP 3 | - | | |

APPLICATION CONDITIONS

Temperature: Do not apply below 50°F. Surface

temperature must be at least 5°F

above dew point.

Relative humidity: 85% maximum



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PART B

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APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer / Clean Up......Reducer #54, Xylene, or MEK

Use Oxsol 100 (exempt solvent)

Airless Spray

Pressure3200 – 3600 psi

Hose3/8"

ReductionAs needed up to 10% by volume

Conventional Spray

Gun.....Binks 95

Fluid Nozzle......68
Air Nozzle.....68 PB

ReductionAs needed up to 10% by volume

Brush

Brush Natural Bristle
Reduction Not recommended

Roller

Cover......3/8"-1/2" woven with phenolic core

ReductionNot recommended

If specific application equipment is not listed above, equivalent equipment may be substituted.

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Do not apply below 50°F

Mix contents thoroughly with power agitation.

Mix each component separately prior to using spray equipment.

Always-flush spray equipment with Reducer #54 prior to use.

If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.

Application of coating outside of the listed parameters may adversely affect coating performance.

PERFORMANCE TIPS

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates can be calculated using volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment. Clean equipment before use or before periods of extended downtime with Reducer #54, R7K54.

Quick-Kick Epoxy Accelerator is acceptable for use. See its data page for details.

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.

DISCLAIMER

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