

SELECTION & SPECIFICATION DATA

Generic Type	Sprayable ceramic novolac
Description	PLASITE XAR 470 uses a ceramic filler matrix to offer extreme abrasion and cutting resistance. Fused by a proprietary epoxy novolac resin this thick film epoxy lining protects in highly corrosive and physically abusive environments.
Features	<ul style="list-style-type: none"> • Hard, tough, durable film • Outstanding adhesion • One coat high build protection • Extreme abrasion resistance • High compressive strength • Very high flexural strength • Broad spectrum chemical resistance • Edge retentive • Batch mix for small areas
Color	Dark gray (0700)
Dry Film Thickness	30 - 40 mils (762 - 1016 microns) per coat
Typical Uses	<ul style="list-style-type: none"> • Restores eroded metal • Slurry pipe and tanks • Mixing blades and impellers • Screw conveyors • Bulk material handling • Frac. sand/chemical mixing • Pump casings. • Pneumatic transfer systems
Solids Content	By Volume 100% +/- 0%
Theoretical Coverage Rate	1604 ft ² /gal at 1.0 mils (39.4 m ² /l at 25 microns) 53 ft ² /gal at 30.0 mils (1.3 m ² /l at 750 microns) 40 ft ² /gal at 40.0 mils (1.0 m ² /l at 1000 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 0 g/L
Dry Temp. Resistance	Continuous: 270°F (132°C) Non-Continuous: 270°F (132°C) Discoloration and loss of gloss occurs above 200°F (93°C) but does not affect performance

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	Immersion: Prepare by abrasive blasting to a minimum near White Metal Finish (NACE NO 2, SSPC-SP10) with a minimum 3 mil (75 micron) dense, sharp anchor profile.

Plasite XAR 470

PRODUCT DATA SHEET



MIXING & THINNING

Mixing	Be sure each component has a smooth, uniform consistency. Any settling in the container must be thoroughly scraped and re-dispersed. Use a Jiffy type mixer and avoid plunging it up and down in the bucket, which can fold air into the resin. Do not thin. This is a plural component applied lining. Batch mixing is only recommended for small quantities.
Thinning	Thinning not recommended
Ratio	A:B 2:1 Plural component proportioner required.
Pot Life	75°F (24°C): 20 minutes

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General	Plasite XAR 470 has a short pot life but may be hand applied in small quantities very successfully. It does not require sweat-in time and should be applied soon after mixing. Breaking the mixed kit into smaller portions will extend working time. Spray application requires 2:1 heated plural component pumps capable of 5000 psi at the tip, two 1/2"x8' elemental in-line static mixers between the mix manifold and a 25 foot x3/8" integration hose. An additional 1/2"x8" static mixer between the integration hose and 10 foot 1/4" whip hose. Cartridge dispensers should be sized to pump 750 ml x 375 ml cartridges.
----------------	---

APPLICATION PROCEDURES

Airless Spray	<ul style="list-style-type: none">• Remove all filters from gun and lines.• Heat A and B components to 115°F.• Set in-line and hose bundles to 130°F, do not heat beyond 140°F.• Reversible tips between 0.021 and 0.030 are recommended.• Start with 3,000 psi pressure setting.• Purge lines and gun within 5 minutes of stopping application with MEK or xylene. <p>Prior to full coat application stripe welds and edges by brush. Spray no more than 8 to 10 mils per pass cross hatching until thickness is reached.</p>
Mixing	For touch-up and small areas only: Pre-mix A and B sides to homogenize. Pour A into B pail and power mix. Pour contents into a separate container and continue mixing scraping residual from the A can. mix until uniform in color. Cartridge application: Cartridges require heating to 120°F. Dispense with a 2:1 dispenser with 1125 ml capacity.

APPLICATION CONDITIONS

Condition	Surface	Ambient	Humidity
Minimum	50°F (10°C)	50°F (10°C)	0%
Maximum	125°F (52°C)	110°F (43°C)	85%

Do not apply material when temperature will fall within 5°F (3°C) of the dew point.

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat	Dry to Touch	Final Cure Immersion	Maximum Recoat Time
75°F (24°C)	3.5 Hours	2.5 Hours	2.5 Hours	24 Hours	8 Hours

CLEANUP & SAFETY

Cleanup | Carboline Thinner 2 or Plasite Thinner 71

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions.

Ventilation | Ventilation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. Use MSHA/NIOSH approved air respirators as needed.

Caution | Fire and explosion hazards: This product contains less than 1% volatile components, however, vapors are heavier than air and can travel long distances, ignite and flash back. Eliminate all Ignitions sources. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life | Part A & B: 2 years Cartridges have a 6 month shelf life from date of shipment at which time they require shaking to homogenize.

Storage Temperature & Humidity | 50-85 °F (10-29 °C)

Storage | Store indoors

Shipping Weight (Approximate) | 0.26 gallon kit (one litre) - 3.76 lbs. Boxed with instructions, latex gloves, stir stick and brush.
1125 ml cartridge kit (0.3 gal.) - 5.35 lbs. Dual cartridge boxed with instructions, 2 static mixers and latex gloves.
15 Gallon Kit - 216 lbs (98 kg)

Flash Point (Setaflash) | Part A: 212 °F (100 °C)
Part B: 200 °F (93 °C)

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.