

SELECTION & SPECIFICATION DATA

Description	PLASITE 5302AR is an epoxy monolithic liner formulated for excellent abrasion resistance while retaining chemical, temperature and other physical properties of PLASITE 5302. Uses: Not intended where aesthetics are a concern. Heavy duty lining designed for areas requiring the ultimate in abrasion resistance up to 150°F. Slurry Line Elbows Cobbler Repulp Water Circulators Feed Chutes Pan Feeders Classifier Flights and Shoes Pump Casings Conveyor Skirts Hoppers Chute Lining Pipe Elbows
Features	<ul style="list-style-type: none"> • Cures quickly to form an exceptionally tough, abrasion resistant surface. • Excellent adhesion to concrete and steel. • Minimum down time. • Non-shrinking.
Color	Gray
Finish	N/A
Solids Content	By Volume 100% +/- 2%
Topcoats	Not Applicable

SUBSTRATES & SURFACE PREPARATION

Concrete or CMU	New Concrete: New concrete must have a minimum of 28 days cure, and no curing agents or sealers shall be used unless approved by Carboline Company. Remove oil, grease or other loose or foreign materials and contaminants. A good bonding tooth, the texture of 40 to 60 grit sandpaper, is desired with the removal of all laitance. To provide the foregoing bonding tooth, it is necessary to prepare the surface using one of the following methods: A. Sandblast with fine sand and reduced pressure B. Scarify C. Rotary shot blast, such as Blastrac® Old Concrete: Remove all powdery, weak concrete, paint, wax, oil, grease or other contaminants. Once the concrete has been cleaned and neutralized, one of the following methods shall be used to provide a good bonding tooth, a surface with the texture of 40 to 60 grit sandpaper, with the removal of all laitance. A. Sandblast with fine sand and reduced pressure B. Scarify C. Rotary shot blast, such as Blastrac® NOTE: DEGREE OF CONTAMINATION AND INTENDED SERVICE WILL DETERMINE DEGREE OF SURFACE PREPARATION. ALL SURFACES MUST BE DRY BEFORE APPLICATION.
Metal	Clean by solvent degreasing, followed by abrasive blasting to near white SSPC-SP10 or NACE No. 2 with a 4 mil minimum anchor pattern or "tooth".

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Compressive Strength	13,000-15,000 psi (ASTM D-695)
Flexural Strength	5,300-6,000 psi (ASTM D-790)
Modulus of Elasticity	1.312 x 10 ⁶ (ASTM D-695)
Tensile Strength	1500-2500psi (ASTM D-638)
Thermal Coefficient of Linear Expansion	9.16 x 10 ⁻⁶ in./in.°F (ASTM D-696)

Plasite 5302AR

PRODUCT DATA SHEET



MIXING & THINNING

Mixing

PRIMER COAT: Mix Parts A & B thoroughly (the pot life or working life is approximately 20 minutes in the can). LINER COAT: Empty the contents of Part B into Part A and mix thoroughly. Then empty the mixture into a mixer, draining the can for about 1/2 minute. Start mixer and slowly add Part C and mix approximately 5 minutes. GEL COAT: Mix Parts A & B thoroughly (the pot life or working life is approximately 20 minutes in the can). NOTE: PERSON MIXING SHOULD WEAR A DUST MASK OR RESPIRATOR. A mechanical mixer designed for quick, thorough mixing of aggregated epoxy coatings similar to those manufactured by: KOL MIXAL Div. of Man U Fab, Inc. 7740 Main Street N.E. Minneapolis, MN 55432 (612) 574-1768 QUICK STIR, INC. P.O. Box 327 Port Clinton, OH 43452 (419) 732-2611 IMPORTANT! THE POT LIFE OR WORKING LIFE OF THE LINER BLEND IS 30 MINUTES. ALWAYS POUR MIXED BATCHES AS SOON AS BLENDED. IMPORTANT! MIXED MATERIALS REMAINING IN CONTAINER WILL PRODUCE HEAT AND MAY SMOKE. KEEP AWAY FROM COMBUSTIBLE MATERIALS. DO NOT RESEAL CONTAINERS!

CURING SCHEDULE

Surface Temp.	Cure Time	Hardening
21°C (70°F)	72 Hours	8 Hours
54°C (130°F)	8 Hours	NR
66°C (150°F)	6 Hours	NR
77°C (170°F)	4 Hours	NR

CLEANUP & SAFETY

Cleanup

Cured or hardened PLASITE 5302AR is almost impossible to remove. Clean tools and equipment immediately with hot, soapy water or PLASITE Thinner #71.

Safety

It is recommended that the operator provide himself with clean coveralls and rubber soled shoes and observe good personal hygiene. Certain personnel may be sensitive to various types of resins which may cause dermatitis. When working in confined areas adequate ventilation must be provided. Respirators or fresh air supplied hoods may be required. FIRE AND EXPLOSION HAZARDS: PRODUCT CONTAINS LESS THAN 1% VOLATILE COMPONENTS. HOWEVER, VAPORS ARE HEAVIER THAN AIR AND COULD TRAVEL LONG DISTANCES, IGNITE, AND FLASHBACK. ELIMINATE ALL IGNITION SOURCES. Keep away from heat, sparks and open flame and use necessary safety equipment such as air mask, explosion-proof electrical equipment, non-sparking tools and ladders, etc. Avoid contact with skin and breathing of vapor or spray mist. When working in tanks, rooms and other enclosed spaces, adequate ventilation must be provided. Refer to PLASITE Bulletin PA-3. Keep out of the reach of children.

PACKAGING, HANDLING & STORAGE

Shelf Life | 12 months at 70°F

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.