

**SELECTION & SPECIFICATION DATA**

<b>Generic Type</b>	PLASITE 5302 is an epoxy monolithic liner formulated for chemical and abrasion resistance in continuous immersion service.
<b>Description</b>	Uses: Ventilating Systems Fourdrinier Pits Conveyor Troughs Conveying Tunnels Pumps Chutes Tanks Acid Pits Trough Walls Foundations Cyclones Sand Hoppers Clarifiers Metal Pans Trenches
<b>Features</b>	Cures quickly to form an exceptionally tough, impact and abrasion resistant surface. Excellent adhesion to concrete, steel and wood. Minimum down time. Non-shrinking.
<b>Color</b>	Gray
<b>Finish</b>	N/A
<b>Solids Content</b>	By Volume 100% +/- 2%
<b>Topcoats</b>	Not Applicable

**SUBSTRATES & SURFACE PREPARATION**

<b>General</b>	All surfaces must be clean, dry and free of contamination prior to application.
<b>Concrete or CMU</b>	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 Technical Service Department. Remove oil, grease or other loose or foreign materials and contaminants. A good bonding tooth, a texture of 40 to 60 grit sandpaper, is desired with the removal of all glaze. To provide the foregoing bonding tooth, it is necessary to prepare the surface using one of the following methods: • Sandblast with fine sand and reduced pressure • Scarify • 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 a texture of 40 to 60 grit sandpaper, with the removal of all glaze: • Sandblast with fine sand and reduced pressure • Scarify • Rotary shot blast, such as Blastrac®
<b>Metal</b>	Degrease surface prior to sandblasting. Use organic solvents, alkaline solutions, steam, hot water with detergents or other systems that will completely remove dirt, oil, grease, etc. Blast the surface to near white SSPC-SP10 or NACE No. 2 using a Venturi blast nozzle with 100 psi air. To produce the 4 mil minimum anchor pattern or "tooth," the blasting media used shall be a properly graded, clean, sharp angular abrasive similar to Humble Abrasive Flint S7 (6-30 mesh), Steel Grit (HG25), or BLACK BEAUTY® (BB1040).

**PERFORMANCE DATA**

Test Method	Results
Compressive Strength:	ASTM D695: 13,000 - 15,000 psi
Flexural Strength	ASTM D790: 5300 - 6000 psi
Modulus of Elasticity	ASTM D695: 1.312 X 10 <sup>6</sup>
Tensile Strength	ASTM D638: 1500 - 2500 psi
Thermal Coefficient of Linear Expansion	ASTM D696: 9.16 X 10 <sup>-6</sup> in/in°F

# Plasite 5302

PRODUCT DATA SHEET



## MIXING & THINNING

### Mixing

Primer: Mix Parts A & B thoroughly (the pot life or working life is approximately 20 minutes in the can). Liner: 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. 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. Minneapolis, MN 55432 KENRICH PRODUCTS Portland, OH IMPORTANT! The pot life or working life of the liner blend is 30 minutes. Always pour mixed batches as soon as blended. Gel Coat: Mix Parts A & B thoroughly (the pot life or working life is approximately 20 minutes in the can). 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 Time
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 5302 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

24 months when stored indoors at 40-110°F (5-43°C)

### Storage Temperature & Humidity

PLASITE 5302 should not be stored at temperatures below 25°F or higher than 85°F for long periods of time. Storage life is 12 months at 70°F. Prior to application, all three components and equipment must be stored at 70 to 85°F for at least 48 hours.

## **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.