

SELECTION & SPECIFICATION DATA

Generic Type	PLASITE 4300 CI is a vinyl ester resin combined with special curing system and inert flake pigment to provide outstanding chemical and physical properties.
Description	Uses: As a high chemical-resistant thick film for tank lining service and as a maintenance coating for severe exposure. PLASITE 4300 CI is formulated to provide shorter set and recoat times with reduced final curing time requirements.
Color	Charcoal Gray
Finish	N/A
Primer	For steel surfaces, coating is considered to be a "self-priming" system. Do not apply PLASITE 4300 directly to concrete. See reference to fillers and sealers in Concrete section
Dry Film Thickness	889 - 1143 microns (35 - 45 mils) per coat dry film thickness recommended for immersion service.
VOC Values	As Supplied : 102+/-2% As Supplied : 67+/-2%
Topcoats	Not Applicable

SUBSTRATES & SURFACE PREPARATION

Concrete or CMU	All concrete requires abrasive blasting to remove laitance and to provide a hard, firm, clean, neutral and fully-cured concrete surface for coating. All concrete surfaces must be filled and sealed prior to the application of PLASITE 4300 CI. Contact Carboline for recommendations.
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PERFORMANCE DATA

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

Test Method	Results
*Abrasion Resistance	Average loss per 1000 cycles, Taber CS-17 Wheel, 1000 gram weight: 30.5 milligrams
*Surface Hardness	Konig Pendulum Hardness of 152 seconds; Glass Standard = 250 seconds; ASTM Method D4366-84.
Elongation	1.5%; Method ASTM D638
Film Density	87.06 lbs/ft ³ (0.2900964 lbs/ft ² at 40 mils)
Pigments	Inert fillers and flake
Thermal Shock	Unaffected by minus 70°F/21°C to plus 200°F in 5 cycles, or 40 to 400°F in 10 cycles.

*Note: Above tests were conducted on film cured at 150°F.

Plasite 4300 CI

PRODUCT DATA SHEET



MIXING & THINNING

Mixing | Mix Part B into Part A using a high speed mechanical agitator with mixing blades fitting close to sides of container, making sure all of Part B is completely mixed with Part A. Mix well until obtaining a smooth liquid, free of any unmixed particles of pigment. Mixture should be used within 72 hours. Lids should be resealed prior to applying. Adjust Part C, the catalyst, and material delivery pumps to provide a catalyst delivery rate of 2% (2.5 liquid oz. per gallon by volume) of PLASITE 4300 CI. Do not exceed 3 liquid ounces of catalyst per gallon of PLASITE 4300 CI. **DO NOT SPLIT KITS!** Part B contains various pigments and catalysts. Splitting of this component will alter the manufacturer's formulation which will seriously affect its application, curing and chemical resistance properties. If splitting of the kit is necessary, contact Carboline Technical Service Department for instructions. A minimum surface temperature of 50°F/10°C is required to obtain polymerization of the coating system. When surface temperatures are over 100°F/38°C, consult Carboline Technical Service Department for special instructions. The mixed coating shall be applied utilizing a multi-pass spray system. Apply horizontal and vertical passes with 50% overlap. Special precautions are required at overlaps and welds to eliminate excessive film build. Spray gun should be perpendicular to surface at all times, approximately 14 in/36 cm from surface. Coating may be overcoated after initial "set" which will occur normally in 1 to 2 hours at 50°F/10°C with proper ventilation. Initial "set" time will decrease as surface temperature increases. Previously applied coats must have reached a "non-tacky" state before being exposed to physical contact. This condition will occur in less time as surface temperature increases. Overcoating shall be performed as soon as possible to prevent contamination.

Thinning | Use PLASITE Thinner #20. 2 to 5% thinning may be needed to adjust coating for higher temperatures and various application conditions. Topcoating of previously applied films will require the addition of 2 to 5% thinner. Consult Carboline Technical Service Department for unusual thinning requirements. See RECOATING TIME. CLEANUP THINNER: Thinner #71

Pot Life | 72 hours at 70 to 90°F/21 to 32°C after combining Part I & Part II.

CURING SCHEDULE

Surface Temp.	Cure Time
10°C (50°F)	5 Days
21°C (70°F)	4 Days

CLEANUP & SAFETY

Cleanup | Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety | Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation | When used as a tank lining or in enclosed areas, thorough air circulation 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. If not sure or if not able to monitor levels, use MSHA/NIOSH approved supplied air respirator.

PACKAGING, HANDLING & STORAGE

Shelf Life | Approximately 3 months at 75°F/24°C. Cooler storage temperatures will increase shelf life. Storage at higher temperatures can result in substantially shorter shelf life.

PACKAGING, HANDLING & STORAGE

Shipping Weight | 12 lbs. per gallon kit.
(Approximate) |

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 to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. 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. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.