

**SELECTION & SPECIFICATION DATA**

<b>Generic Type</b>	A vinyl ester resin combined with glass and other inert pigments to provide a coating with excellent chemical resistance and is also available for catalyst injection spray equipment (identified as PLASITE 4007CI).
<b>Description</b>	PLASITE 4007 (4007CI) is a high chemical resistant coating. May be used as a light colored topcoat for 4300 or as a multi-coat coating system with or without the option of incorporating fiberglass cloth reinforcement.
<b>Color</b>	Off White and Lt. Gray.
<b>Finish</b>	N/A
<b>VOC Values</b>	<b>As Supplied</b> : 18+/-2% <b>As Supplied</b> : 36 +/-2%
<b>Topcoats</b>	Not Applicable

**SUBSTRATES & SURFACE PREPARATION**

<b>General</b>	Note: Previously applied coating exposed to sunlight or surface temperatures in excess of 130°F/54.4°C may result in intercoat disbondment. An applied coating film should be topcoated before an accumulation of 8 hours exposure has occurred, or special procedures (such as shading with tarps) should be used. Care must be taken to avoid contamination between coats.
<b>Concrete or CMU</b>	Immersion Service: All concrete surfaces require whip blasting for immersion service. Fully cured concrete (minimum 28 day cure) must be blasted to provide a hard, firm, clean and neutral surface for coating. All concrete surfaces must be filled and sealed with the appropriate Carboline filler sealer, applied in accordance with the corresponding Carboline product data sheet. All surface imperfections, "bug holes," etc. must be completely repaired before application of PLASITE 4007. Strong Fumes and Splash Spill: Severity of expected service will dictate proper concrete surface preparation. Contact the Carboline Technical Service Department for other than steel and concrete surfaces.

**PERFORMANCE DATA**

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

Test Method	Results
Abrasion Resistance	57.32 milligrams average loss per 1000 cycles, Taber CS-17 Wheel, 1000 gram weight
Pigments	Coloring pigments and inerts

# Plasite 4007 CI

## PRODUCT DATA SHEET



### MIXING & THINNING

<b>Mixing</b>	<p>PLASITE 4007 The promoter (Part B) and catalyst (Part C) are supplied in separate containers and are premeasured for the coating unit supplied. Thoroughly mix the coating (Part A). After the pigments and liquid are thoroughly mixed, add the entire amount of the measured liquid promoter (Part B). Mix completely (no color streaking or residue of Part B should remain on container sidewalls). Add the catalyst (Part C) and mix completely with the coating. <b>WARNING!</b> The promoter (Part B) and the catalyst (Part C) must be separately mixed into the coating (Part A). Any contact of unmixed Part B with Part C may lead to a fire or an explosion! PLASITE 4007CI The promoter (Part B) and the catalyst (Part C) are supplied in separate containers. The promoter (Part B) is premeasured for the coating unit supplied. The catalyst (Part C) is available in either 1 quart or 1 gallon containers. 2% or 2½ liquid oz. (by volume) of peroxide catalyst (Part C) is recommended per gallon of PLASITE 4007CI. One gallon of Part C peroxide catalyst will catalyze approximately 50 gallons of PLASITE 4007CI. Thoroughly mix the coating (Part A). After the pigment and liquid are thoroughly mixed, add the entire amount of the measured liquid promoter (Part B). Mix completely (no color streaking or residue of Part B should remain on container sidewalls). Adjust Part C and material delivery pumps to provide a catalyst delivery rate of 2% or 2½ liquid oz./83 milliliters per gallon (by volume) of PLASITE 4007CI. Do not exceed 3 liquid ounces/100 milliliters of catalyst per gallon of PLASITE 4007CI. <b>WARNING!</b> The promoter (Part B) and the catalyst (Part C) must be separately mixed into the coating (Part A). Any contact of unmixed Part B with Part C may lead to a fire or an explosion!</p>
<b>Thinning</b>	<p>Use Plasite Thinner #20. Thinning of 2% to 5% may be required 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's Technical Service Department for unusual thinning requirements. See RECOATING TIME. CLEANUP THINNER: Thinner #71</p>
<b>Pot Life</b>	<p>1 to 1½ hours in one gallon cans; 1 hour in five gallon cans at 70°F/21°C to 80°F/26.6°C material temperature. Material temperature in excess of 80°F/26.6°C will significantly reduce pot life. Careful monitoring is essential.</p>

**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.

**Airless Spray**

Airless spray system requires a large capacity pump with a capacity of 3 g.p.m. similar or equal to: Graco Bulldog with 0.025" or larger fluid nozzle, 12" minimum spray width is recommended. Use liquid pressure of approximately 1600 to 1800 psi/100 to 124 bars. All screens should be removed from pump and gun. A 3/8" diameter fluid line is recommended. Note: Brush application is not recommended but may be used for repairs or touch-up. Contact Carboline's Technical Service Department for brush directions. PLASITE 4007CI Use standard catalyst injection equipment, such as the Venus HIS 808000 Air Assisted Internal Mix System, or Binks Model 105-1248 Cart Mounted Super Slave Gel Coat/Wetout System. In lieu of the discontinued model, 105-1248, Binks Model 103-1718 Super Slave Pump ASS'Y may be used. Use a 2650 spray tip (Part #108-92609) and a Century gun Model 102- 2450. The Venus CI equipment is distributed in the Wisconsin, Illinois, Michigan and Ohio areas by GLS Fiberglass, Goshen, Indiana. For other area distributors, contact Venus-Gusmer, Kent, Washington. For the Binks equipment, contact any Binks Plastic Resin Equipment Distributor or the FRP Engineering Department of ITW Poly-Craft, Glendale Heights, IL. Note: The abrasive nature of the glass pigment within PLASITE 4007/4007CI results in above normal wear to airless equipment lower units. PLASITE 4007 A minimum surface temperature of 70°F/21°C is required to obtain polymerization of the coating system. Coating can be applied at a surface temperature as low as 60°F/15.5°C but polymerization will not take place. Succeeding coats cannot be applied without damaging the system until the surface temperature rises sufficiently to obtain polymerization. Refer to CURING TIME. When surface temperatures are over 100°F/37.8°C, consult Carboline Technical Service Department for special thinner and thinning instructions. The mixed coating shall be applied utilizing a multipass 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" from surface. Refer to THINNERS section. Coating may be overcoated after initial "set" which will occur normally in 3 to 6 hours at 70°F/21°C with proper ventilation. Initial "set" time will decrease as surface temperature increases. PLASITE 4007CI A minimum surface temperature of 50°F/10°C is required to obtain polymerization of the coating system. Refer to CURING TIME. When surface temperatures are over 100°F/32.2°C, consult Carboline Technical Service Department for special thinner and thinning instructions. The mixed coating shall be applied utilizing a multi-pass spray system. Apply horizontal and vertical passes with 50% 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"/35.5 cm from surface. Refer to THINNERS section. Coating may be overcoated after initial "set" which will occur normally in 1 to 2 hours at 75°F/24°F with proper ventilation. Initial "set" time will decrease as surface temperature increases. WARNING! Refer to RECOATING TIME. When physical contact, such as foot traffic, scaffolding, etc., with the previously applied coating is required, a minimum of 10 hours at 70°F/21°C substrate and air temperature with ventilation is normally required before proceeding. Previously applied coats must have reached a "nontacky" 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.

**CURING SCHEDULE**

Surface Temp.	Cure Time
21°C (70°F)	10 Days
32°C (90°F)	7 Days

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### CLEANUP & SAFETY

#### Safety

For tank lining work and enclosed spaces, 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. THE SOLVENT IN THIS COATING IS FLAMMABLE AND CARE AS DEMANDED BY GOOD PRACTICE, OSHA, STATE AND LOCAL SAFETY CODES, ETC. MUST BE FOLLOWED CLOSELY. Keep away from heat, sparks and open flame and use necessary safety equipment such 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. The coating system may be handled safely by trained personnel following normal laboratory and plant standards for housekeeping and personal hygiene. In the event of skin contact complications, the affected areas should be washed with soap and water. Eye protection is recommended. Work in well ventilated areas away from open flame. In enclosed areas, although ventilated, fresh air masks should be provided. The catalyst (Part C) is relatively stable at room temperatures but must be protected from contamination, heat, fire and contact with promoter (Part B). The catalyst (Part C) is classified by the Interstate Commerce Commission as an "oxidizing material." All shipping containers bear a yellow caution label. The catalyst is highly irritating if it gets into the eyes. Immediately rinse eyes thoroughly with water and get medical attention. The catalyst also can be a skin irritant and should be removed with large quantities of soap and water. Since this is an oxidizing material, it should not be allowed to accumulate or remain in soaked rags or clothing.

### PACKAGING, HANDLING & STORAGE

#### Shelf Life

60 days at 70°F/21°C. Cooler temperatures will increase shelf life. Storage at higher temperatures is not recommended and will result in substantially shorter shelf life.

#### Shipping Weight (Approximate)

13 lbs/5.85 kg per gallon

### 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.