

SELECTION & SPECIFICATION DATA

Generic Type	100% solids epoxy
Description	A 100% solids epoxy blended with a properly graded combination of silica fillers and inerts to provide excellent bulking, film strength and working properties. 9029 Filler meets the FDA requirements for 21 CFR, 175.300. Plasite 9029 is used as a filler for concrete voids, as well as a repair or grout material. Topcoating with the appropriate Carboline coating enables the system to meet the requirements as a tank lining for the food and beverage industries.
Color	N/A
Solids Content	By Weight 1
VOC Values	As Supplied : 0 lbs/gal (0 g/l)
Topcoats	May be coated with Epoxies or Polyurethanes depending on exposure and need.

SUBSTRATES & SURFACE PREPARATION

General	<p>Immersion Service Inspect for structural failures, cracks, protrusions and fins. Grind surface flush and grind cracks to 'V' configuration. Chip out all loose concrete to width of Concrete surfaces must have a minimum 30 day cure, be clean, hard, dense, neutral and free of laitance, form oil and release agents. Blow holes, pits and cavities must be open so that they may be properly filled and sealed. To provide the foregoing requirements, it is necessary to prepare the surface using one or more methods listed in order of preference:</p> <p>Whip blast with a fine grade of sand reducing the normal nozzle pressures. Pressure and distance of nozzle from surface depends on characteristics of concrete. CAUTION: Do not over blast as it will result in high consumption of material and labor.</p> <p>Note: Surface preparation for exposures other than immersion service will require less surface preparation and will depend on environment, condition of concrete surface and other factors. Satisfactory surface preparation, sanding, grinding, brushing, pressure washing, etching and other methods must be determined on a job-to-job basis. Contact Carboline Technical Service Department for specific information.</p>
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PERFORMANCE DATA

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

Test Method	System	Results
Thermal Shock	Plasite 9029	Unaffected 5 cycles, minus 70°F to plus 200°F on concrete substrate

Pigments: Inert fillers, silica, oxide yellow.

CHEMICAL RESISTANCE: Good all-around chemical resistance.

MIXING & THINNING

Mixing	A unit of PLASITE 9029 Filler consists of 2 equal containers — Part I pigmented (Oxide Yellow) and Part II pigmented (Off White). Mix Part I and Part II equal parts by volume. Mix until fully blended (no color streaking present). A mechanical mixer is advised to assure optimum workability.
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Plasite 9029

PRODUCT DATA SHEET



MIXING & THINNING

- Thinning** | When used with vinyl ester topcoats, mixed material must be thinned with Plasite Thinner #20 at 5-6% by volume and a minimum induction time of 15 minutes is required.
CLEANUP THINNER: Thinner #20
- Pot Life** | Approximately 1 hour at 70°F.

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.

- Spray Application (General)** | Apply first coat by trowel and thoroughly work into surface with squeegee or flexible plastic blade to provide a flush uniform surface.
Apply second coat if necessary in same manner as first coat. This will normally fill all small voids leaving a flush surface. Coverage rates are approximately 80 to 120 ft²/gal. depending on the roughness of the concrete surface. This coat may be applied immediately after the first coat is set. Visually inspect all surfaces and repair any voids.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	21°C (70°F)	21°C (70°F)	21°C (70°F)	65%

CURING PROGRAM

Surface Temp.	Cure Time	Dry to Topcoat	Maximum Recoat Time	Set Time
21°C (70°F)	5 Days	16 Hours	14 Days	16 Hours
21°C (70°F)	7 Days	18 Hours	NR	24 Hours

At 70°F and relative humidity of 40% to 60%, the set time is 16 to 24 hours.

PLASITE 9029 Filler may be overcoated after 16 to 18 hours at 70°F or higher. Any coating that is used as a topcoat that has not been tried should be checked for bleed-through if earlier overcoating is required. Prolonged cure times or exposure to ultraviolet light prior to topcoating can negatively affect adhesion of topcoats. Topcoat as soon as practical, but do not exceed 14 days at 70°F.

Allow 5 to 7 days at 70°F for final cure or force cure on the same schedule as for topcoat.

Note: When topcoating with vinyl esters, 9029 Filler must be topcoated within 30 hours. If these recoat times are exceeded, sweep blast the surface to provide anchor profile.

CLEANUP & SAFETY

- Cleanup** | Use Thinner #20. 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 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 respirator.

PACKAGING, HANDLING & STORAGE

Shelf Life | 6 months at 70°F

**Shipping Weight
(Approximate)** | Approx. 17 lbs/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 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.