Plasite® 9200 HAR

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	High solids self-priming epoxy amine
Description	Plasite 9200 HAR is a high solids, self-priming epoxy, cured with an amine curing agent and formulated with special pigmentation to produce an abrasion resistant film with a degree of electrical conductivity. (As standard concrete filler-sealers having high dielectric properties cannot be used, Plasite 9200 HAR should not normally be considered as a total immersion lining for concrete vessels).
Features	Excellent resistance to a wide range of chemicals and water solutions.
Color	Medium Grey
Finish	Satin
Dry Film Thickness	6 - 8 mils (152 - 203 microns) per coat 12 - 15 mils (305 - 381 microns) in two or three coats for immersion service
Typical Uses	Plasite 9200 HAR can be used as an internal lining or protective coating on metal, concrete, or other conductive surfaces to effectively bleed off accumulated electrostatic charge.
Solids Content	By Volume 86% +/- 2%
Theoretical Coverage Rate	1379 ft²/gal at 1.0 mils (33.9 m²/l at 25 microns) 230 ft²/gal at 6.0 mils (5.6 m²/l at 150 microns) 92 ft²/gal at 15.0 mils (2.3 m²/l at 375 microns) Allow for loss in mixing and application.
VOC Values	Plasite Thinner #71 Thinned 10%: 1.47 lbs/gal (175.5 g/l) ± 4% As Supplied 0.94 lbs/gal (112 g/l) ± 4%

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	Immersion: SSPC-SP10 Non-Immersion: SSPC-SP6 Surface Profile: 2.0-3.0 mils (50-75 micron)
Concrete or CMU	Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in accordance with the appropriate ICRI CSP 2-5. Linings surface prep.

PERFORMANCE DATA

Test Method	System	Results
Abrasion Resistance (ASTM D4060, Taber CS-17 Wheel, 1000 gram weight, 1000 cycles)*	Plasite 9200 HAR (Two Coats)	16 milligrams average loss
Electrical Resistance	Point-To-Ground	<25,000 ohms
Surface Hardness (ASTM Method D4366-84) Konig Pendulum (Glass Standard = 250 seconds)*	Plasite 9200 HAR (Two Coats)	155 seconds

***Note:** Above tests were conducted on film cured at 150 °F (65.6 °C).

MIXING & THINNING

Mixing
The curing agent and coating are supplied in separate containers at a 3:1 ratio. For splitting purposes, use 3 parts coating to 1 part curing agent by volume. Thoroughly mix coating, then add curing agent slowly and mix completely with coating.
Note: Continuous mixing during use is required. Nonconductive primers (such as Plasite 7103 Primer) should not be used with Plasite 9200 HAR. While it may be possible to use an electrically conductive primer (such as Plasite 1000 inorganic zinc), it is recommended that the Carboline Technical Service Department be consulted first.

Thinning
Plasite Thinner 71 is recommended. Normal application temperature and conditions will require addition of 10% by volume.

Ratio
3:1

Pot Life
Approximately 4 hours at 70 °F (21 °C)

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)
All spray equipment should be thoroughly cleaned and the hose, in particular, should be free of old paint film and other contaminants.
Apply a “mist” bonding pass.
Allow to dry approximately one minute, but not long enough to allow film to completely dry.
Apply crisscross multi-passes, moving gun at fairly rapid rate, maintaining a wet appearing film. Fast multi-passes may be applied until you have film thickness of approximately 6 to 7 mils (approximately 7 to 8 wet mils).
Remove all overspray by dry brushing or scraping if required.
Apply a second coat to obtain a film of 12 to 15 mils.
Equipment must be thoroughly cleaned immediately after use with Plasite thinner to prevent the setting of the coating.

Note: All welds, pits and rough metal areas should be coated by brush prior to spray application.

Conventional Spray
Use standard production-type spray guns.
Air supply shall be uncontaminated. Adjust air pressure to approximately 50 lbs. at the gun and provide 5 to 10 lbs. of pot pressure. Adjust spray gun by first opening liquid valve and then adjusting air valve to give an 8” to 12” wide spray pattern with best possible atomization.
Continuous agitation during use is required.

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Airless Spray	A heavy-duty trigger spring is recommended. Atomizing air spray is recommended because of the high wear rate of tips and pump parts on airless spray equipment.

CURING SCHEDULE

Surface Temp.	Tack Free	Minimum Recoat Time	Dry to Recoat Maximum	Final Cure Immersion
50°F (10°C)	NR	NR	NR	10 Days
70°F (21°C)	5 Hours	10 Hours	12 Hours	7 Days
90°F (32°C)	NR	NR	NR	5 Days

Overcoat time will vary both with temperature and ventilation and will normally require 10 to 12 hours at 70 °F (21 °C) for enclosed spaces. Less time is required for exteriors.
Consult Carboline Technical Service Department for force curing information.

CLEANUP & SAFETY

Cleanup	Use Thinner 2, Thinner 71, or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.
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

Packaging	**1 Gallon Kit** Part A: 0.75 gallon can Part B: 0.25 gallon can **5 Gallon Kit** Part A: 3.75 gallon bucket Part B: 1.25 gallon bucket
Shelf Life	24 months minimum at 70 °F (21 °C) Material in stock should be turned upside down every 3 to 6 months.
Storage Temperature & Humidity	Store all components between 50-90 °F (10-32 °C) in a dry area.
Storage	Keep out of direct sunlight. Avoid excessive heat and do not freeze.
Shipping Weight (Approximate)	1 Gallon Kit: Approx. 14.2 lbs 5 Gallon Kit: Approx. 72.2 lbs

PACKAGING, HANDLING & STORAGE

Flash Point (Setaflash)	Part A: 24 °F (-4 °C) Part B: 200 °F (93 °C)

WARRANTY

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