PPG HPC High Gloss Epoxy

DESCRIPTION
High Gloss Polyamine Epoxy

PRINCIPAL CHARACTERISTICS
– Low VOC
– Abrasion resistant
– Self priming on concrete
– Spray, brush, and roller application
– Excellent chemical resistance for splash & spill areas
– Ready mix and custom colors available
– Hard, tile-like finish

COLOR AND GLOSS
Gloss
Porcelain White, Light Base, Neutral Base, Yellow Base

* Epoxy coatings will characteristically chalk and fade upon exposure to sunlight. Light colors are prone to ambering to some extent in interior or exterior exposures.

** Tint with 4257 line colorants only.

BASIC DATA
Volume solids 80% ± 3%
VOC 1.08 lbs/gal; 130 g/L (EPA Method 24)
Recommended
Dry film thickness (per coat) 4-8 mils; (100-200 microns)
Wet film thickness (per coat) 5-10 mils; (125-250 microns)
Theoretical Spread Rate 1251 ft²/gal @ 1 mils
313 ft²/gal @ 4 mils
Components 2
Shelf Life 3 years from date of manufacture

SURFACE PREPARATION
Coating performance is, in general, proportional to the degree of surface preparation.

WARNING: Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSH-approved) respirator and proper containment and cleanup. For additional information, contact the USEPA Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office.

Steel – Remove weld spatter, protrusions, and laminations in steel. Remove all surface contaminants, oil and grease in accordance with SSPC SP-1. Abrasive blast with an angular abrasive to an SSPC SP-6 cleanliness or higher for optimum performance. For maintenance and repair in atmospheric service, the product can be applied over surfaces prepared in accordance with SSPC SP-2 or SSPC SP-3 (hand and power tool cleaning).

Concrete – Remove all surface contaminants such as oil, grease, and embedded chemicals. Abrade the surface per ASTM D 4259 to remove all chalk and surface glaze or laitance. Mechanical surface preparation should expose sub-surface voids and provide a surface profile equivalent to 60 grit sandpaper or coarser. Surface should be free from moisture in accordance with ASTM D4263. Refer to Information Sheet # 1496ACUS for further details regarding moisture measurements. Slabs on grade should have a maximum moisture content of 3 lbs/1,000 ft²/24 hours when measured by calcium chloride test.

Non-ferrous metals – Lightly abrasive blast or mechanically abrade in accordance with SSPC SP-16 to achieve a uniform and dense 1.5 – 3.0 mil anchor profile. Prime with an epoxy primer.

Galvanizing or Galvalume® – Remove oil or soap film with detergent or emulsion cleaner, then use a phosphatizing conversion coating. Alternately, power tool clean to uniformly abrade the surface or lightly abrasive blast with a fine abrasive to produce a uniform and dense anchor profile of 1-3 mils. Prime with an epoxy primer.
Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all contaminants and white rust. Galvanized surfaces that have been passivated with a chromate treatment must be lightly abrasive blasted. Coatings may not adhere to chromate sealed galvanizing if the chromates are not completely removed.

Stainless Steel
- Abrasive blast with a hard angular abrasive to achieve a uniform and dense anchor profile of 1.5-3.0 mils.

Aged Coatings and Repairs
- Ensure the coating system is sound and well adhered. Do not apply over acrylic coatings or coatings that exhibit poor solvent resistance. A test patch is recommended. Sweep blast or otherwise thoroughly abrade the existing coating in accordance with SSPC SP-7. Feather the edges of tightly adhered, in-tact coatings at the perimeter of repair areas. Power tool clean the existing steel in accordance with SSPC SP-3 (mild environments) or SSPC SP-11 (aggressive environments).

ENVIRONMENTAL CONDITIONS

Ambient temperatures 50°F to 110°F (10°C to 43°C)
Material temperatures 50°C to 90°F (10°C to 32°C)
Relative humidity 0-85%, Surface temperature must be at least 5°F above the dew point temperature to prevent condensation.
Surface temperature 50°F to 130°F (10°C to 54°C)
General air quality Area should be sheltered from airborne particulates and pollutants. Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors. Ensure good ventilation during application and curing. Provide shelter to prevent wind from affecting spray patterns.

INSTRUCTIONS FOR USE

Mixing ratio by volume
4 parts base to 1 part hardener
Pre-mix pigmented components with a pneumatic air mixing at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1-2 minutes until completely dispersed.

Pot life

<table>
<thead>
<tr>
<th>Temperature</th>
<th>50°F</th>
<th>70°F</th>
<th>90°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Induction time</td>
<td>6 hours</td>
<td>4 hours</td>
<td>2 hours</td>
</tr>
</tbody>
</table>

Induction time

<table>
<thead>
<tr>
<th>Temperature</th>
<th>50°F</th>
<th>70°F</th>
<th>90°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 minutes</td>
<td>15 minutes</td>
<td>10 minutes</td>
<td></td>
</tr>
</tbody>
</table>

Airless spray
45:1 pump or larger, 0.013-0.015” fluid tip,
Thin up to 8% (not normally required)

Air spray
Standard conventional equipment, 0.070” fluid orifice, Thin up to 10%

Brush & roll
Use a high quality natural bristle brush and / or solvent resistant, 3/8” nap roller. Ensure brush / roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film build.

Thinner
97-727, Amercoat 65 or Amercoat T-10, (97-734 or Amercoat 101 recommended for > 90°F)

Cleaning solvent
Amercoat 12 Cleaner or thinner

Primers
Direct-to-substrate (2 coats minimum) or : 95-245, 97-145, 97-946, 97-670, Metalhide 2000, Amerlock 400BF, Amerlock Sealer

Limitations for use
For Industrial or Professional Use Only, not intended for household use.

Safety precautions
For paint and recommended thinners see safety sheet 1430, 1431 and relevant material safety data sheets
This is a solvent borne paint and care should be taken to avoid inhalation of spray mist or vapor as well as contact between the wet paint and exposed skin or eyes.
**DRY/CURE TIMES**

<table>
<thead>
<tr>
<th></th>
<th>50°F</th>
<th>70°F</th>
<th>90°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to touch</td>
<td>12 hours</td>
<td>6 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td>Dry through</td>
<td>48 hours</td>
<td>18 hours</td>
<td>12 hours</td>
</tr>
<tr>
<td>Dry to recoat/topcoat, min</td>
<td>36 hours</td>
<td>16 hours</td>
<td>8 hours</td>
</tr>
<tr>
<td>Max recoat, self</td>
<td>30 days</td>
<td>14 days</td>
<td>7 days</td>
</tr>
</tbody>
</table>

**Note:** Dry times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures – not simply air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window.

Surface must be clean and dry. Any contamination must be identified and removed. A detergent wash with Prep 88 or equivalent is required prior to application of topcoats after 30 days of exposure. However, particular attention must be paid to surfaces exposed to sunlight where chalking may be present. In those situations, a further degree of cleaning may be required. PPG Technical Service can advise on suitable cleaning methods.

If maximum recoat/topcoat time is exceeded, then roughen surface.

**PRODUCT QUALIFICATIONS**

- Meets MPI Category #82, Deck Coatings (Slip Resistant)
- Meets MPI Category #98, Epoxy, High Build, Gloss

**AVAILABILITY**

- Packaging: 1-gallon & 5-gallon kits
- Product codes:
  - 95-501 Porcelain White
  - 95-502 Light Base
  - 95-503 Neutral Base
  - 95-505 Yellow Base
  - 95-506 Hardener Component

**WARRANTY STATEMENT**

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG’s specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product.

**LIMITATION OF LIABILITY**

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT.

The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG’s knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user’s responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk.

PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

This sheet supersedes all previous versions and it is the Buyer’s responsibility to ensure that this information is current prior to using the product.

Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.