



Product Data Sheet

“PHILATRIA PLASTIC P”

Product Information

Double-component, epoxy-polyamide paint for industrial pavings.

PhilAtria Plastic P is an epoxy-polyamide resins based topcoat, with lightfast pigmentation.

PhilAtria Plastic P is hard and elastic, after drying, with an excellent abrasability, strong filling power, easy to apply, highly resistant to oil, Diesel oil, kerosene, alkali acid solutions, vegetable oils, domestic and industrial detergents.

Is an abrasive, heavy duty, general purpose non-skid deck covering designed to provide maximum wear and impact resistance for Naval vessels.

In accordance with NAVSEA guidance to non - skid systems Dark Gray Color is designed to be used in conjunction with PhilAtria Plastofond AS primer.

You can obtain non -slip effect adding and pouring " Microsfere di Verto" 2U SOVITEC in quantity of 20-25%.

Application Techniques Roller will be consulted during the application.

PhilAtria Plastic P displays very good compatibility with various well-known producers.

Recommended Purpose

Suitable for concrete industrial pavings, iron, galvanized iron of industrial sheds used for food transformation, electronic workings, toilettes' floorings, operating theatres, dairy-farmings, pasta factories, refrigerating rooms, slaughter houses and for any other place, requiring an easy cleaning, disinfecting and water-tightness. Product is recommended for heavy industrial atmospheres; immersion in sea, demineralised power water; immersion and contact with acid salt, alkaline, thinned solutions; oil, naphtha, lubricating oils, crude oil.

Physical Properties

Sheen: Gloss

Colors: Various colors

Volume Solids (%): 55 ± 2

Theoretical spreading rate Sq.m/L – gr/m²: 3,7 Sq.m./l or 0,380 kg/Sq.m. for two coats

Typical thickness wet/dry micron: 270 wet / 150 dry

Flash Point: 26 °C

Heat resistance : 120 °C outdoor – 50 °C immersion

Density Kg/Lit.: 1,40 ± 0,05

Viscosity 25°C: 2000 – 3000 mpa s

Application Data

Mixing Ratio: Base 85, Curing Agent 15 by weight.

Readiness Time: 15 minutes in a proper temperature.

Thinner: Epoxy Thinner PH 300, non-toxic thinner or ethyl alcohol

Pot Life: 8 hours at 20 °C

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Painting Method:

Brush: 5% thinning first and second coat

Short haired Roller: 2% thinning or unthinned

Spray: not optimal

Airless spray: 5 - 8% thinning by weight. Nozzle's diameter 0,400 – 0,600 mm.

Compression Ratio 30:1. Exit pressure 160 – 170 pa (atm.)

Use proper equipment. Actual safety measures and precautions are very important from the selected method and environment work. Emergency Contact Numbers are available Worldwide upon any request.

Optimal Application Conditions:

The temperature of the substrate should be at least 3°C above the dew point of the air. Temperature and relative humidity should be measured near the substrate. The maximum recommended surface temperature is approx. 40°C. Higher steel temperatures are acceptable provided dry-spray is avoided by proper spray application and extra thinning if required. In extreme cases it may be necessary to reduce film thickness to avoid sagging. When applying the paint in confined spaces, provide adequate ventilation during application and drying. The temperature of the mixed paint should be at least 15°C, otherwise extra solvent may be required to obtain a proper application viscosity.

Drying and Over coating Conditions:

| Temperature of basis material | 25°C |
|-------------------------------|------------------------|
| Untouched (1) | 2 hours |
| Dry to the touch | 6 hours |
| Absolutely dry (2) | 24 hours |
| Min./ Max. over-coating times | 10 hours /max 48 hours |

(1) The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, preceding paint system etc.

(2) The surface should be dry and free from contaminants prior to overcoating. The best intercoat adhesion is achieved when the subsequent coat is applied before the preceding coat is fully cured. After prolonged exposure it may be necessary to roughen the surface to ensure intercoat adhesion. When recoating with single pack products, maximum recoat interval is limited to 16-24 hours. When in doubt, consult with Philadelphia Coatings LLC Technical Department.

Coating Specification

Long overcoat period if temperatures are around freezing point. Proper selection of the systems, coating application procedures and surface preparation are made depending on actual existing film. Best specific design factors and conditions are tested in a controlled laboratory. Consult with Philadelphia Coatings LLC Technical Department before and throughout testing process.

Product is not recommended for contact with strong acids (nitric, sulphuric, hydrochloric acid) and oxidizing substances (hydrogen peroxide, sodium perchlorate).



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Tender Item:

Application of PhilAtria Plastic P, epoxy-polyamide, high thickness coating, with high chemical and mechanical resistant pigmentation, to be applied in two coats over concrete, iron or galvanized iron pavings, with a consumption of 0,380 kg/Sq.m., excluded practical operating loss.

Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

New iron:

Brush off any rust and working flakings, or sand, degrease and apply a double-component epoxy primer (brushing), or a cold galvaniser zinc (sanding). Afterwards, apply two coats of PhilAtria Plastic P.

Painted iron:

Sand and remove mechanically any trace of old chalking paintwork; apply over uncoated areas one coat of double-component epoxy primer. After drying, apply evenly over the whole surface two coats of PhilAtria Plastic P.

Galvanized iron:

Degrease by solvent, remove any trace of grease, which is typical of these kind of substrates, otherwise the adhesive power of the product could be compromised. Apply one coat of self-anchoring primer for galvanized sheet iron, zinc double-component. After drying, apply evenly over the whole surface two coats of PhilAtria Plastic P.

Cement-concrete pavings:

Check that the surface has been seasoned for at least 28 days. In case of chalking and dusty pavings, clean well and wash out with an acid solution to remove chemically the surface peeling carbonation. Let dry and apply, according to the surface porosity, one or two coats of double-component strengthening, penetrating water based primer. Allow 12-24 hrs. drying. Apply evenly two coats of PhilAtria Plastic P.

Application notes:

Do not apply over surfaces showing rising damp.

Do not apply at temperatures below 5 °C or with relative humidity above 65%, because this can cause surface defects and film bleaching.

Wash tools with thinner after use.

If the second coat is applied 5 days later than the first one, it is necessary to sand the substrate, to obtain the maximum adhesive power of the product.

During application, the base and hardener temperature must be above 15 °C, otherwise it is necessary to thin more the product to have the right application viscosity. Anyway, an excessive thinner quantity causes a slower catalysis and therefore a hardening's delay.

PhilAtria Plastic P, as every epoxy coating, suffers a light surface chalking, if exposed to the direct sunlight for a long time.



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Minimum recommended surface preparation:

| Substrate | Minimum | Recommended |
|------------------|--|--|
| Carbon steel | St 2 (ISO 8501-1) | Sa 2 (ISO 8501-1) |
| Stainless steel | The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface and to remove all polish from the surface. | Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile. |
| Galvanised steel | The surface shall be clean, dry and appear with a rough and dull profile. | Light brush blasting using nonmetallic abrasive leaving a clean, rough and even pattern. |
| Coated surfaces | Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4) | Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4) |
| Concrete | Low pressure water washing to a rough, clean, dry and laitance free surface. | Minimum 4 weeks curing. Moisture content maximum 5 %. Prepare the surface by means of enclosed blast shot or diamond grinding and other appropriate means to abrade the surrounding concrete and to remove laitance. |

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

Storage

Circa 24 months at 25°C, stored at dry, shaded and ventilated condition. The container/paint, must be kept sealed and away from heat and ignition.

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Color Variation

When applicable, products primarily intended for use as primers or antifoulings may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering. Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., and application quality. For further information, please consult with Philadelphia Coatings LLC.

Pack Size

kg 20 drum. If other packing specifications are needed, please consult with Philadelphia Coatings LLC.

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Shipping weight

kg 20 drum.

Health and Safety

Prior to use, obtain, consult and follow the Material Safety Data Sheet for this product concerning health and safety information. Read carefully and conform to precautions on MSDS and packing vessels. To avoid eye and skin contact, tools such as gloves, goggles and face mask etc. should be used during work with product (proper safety measures should be taken according to construction methods and circumstances). All work with the product must be carried out according to all relevant national health, safety and environment standards and codes. This product is for professional use only.

Limitation of liability

All information is given for guidance only and is subject to regional variation depending upon local climate and environmental condition. An excessive film thickness delays the final curing and creates sagging. Over coating interval will increase with the number of paint layers and the thickness of the paint film. For recommended paints at special circumstances, please consult with Philadelphia Coatings LLC. Apply in good weather. The relative humidity must not exceed 80% temperature of the surface to be coated must be at least 3°C above the dew point. All data from the tests is obtained under lab conditions, so Philadelphia Coatings LLC will not bear any liabilities from the condition whether the data could reflect the objective status of the actual application circumstance or not.

Disclaimer

The information in the product manual is based on our experiences from tests and practice. For the application without our knowledge, we could only make sure that our products themselves are warranted. We may modify the data in this product manual according to our continuous development and experience accumulation without advanced notice.