

MARLON

Marlon Poly-Marine



Product description

Marlon Poly-Marine is a durable and slip resistant coating with a low weight. Marlon Poly-Marine is designed for steel, concrete, wood and aluminum and Marlon Poly-Marine is ideal for bridges, Ro/Ro ramps, ferry ramps, helidecks, platforms, gangways etc. Marlon Poly-Marine is spark-free and has a low flame spread and it is well-suited for drilling rigs and ferry decks. Marlon Poly-Marine is a three-component polyurethane system. Special aggregates must be spread over the Marlon Poly-Marine slurry when it is still wet. The thickness of the finished Marlon Poly-Marine system is 3-7 mm (0.12-0.28 in) depending on the chosen size of aggregates. The components are delivered in pre-weighted sets of 20 kg (44.1 lb.) ready for use.

Application

Mix the three components and stir vigorously to a smooth uniform liquid mass without any lumps. The mixed Marlon Poly-Marine product must be applied within approx. 15 min. The Marlon Poly-Marine mixture is poured onto the substrate and distributed evenly with tooth spatula. Immediately after the mass is distributed in the area, the wet Marlon Poly-Marine compound is saturated with a top layer of special aggregates. After curing, excess unbound material is swept away.

Steel

The steel must be grit blasted to SA 2.5 with a profile of minimum 65 μ . Immediately after grit blasting the surface must be primed with a suitable PU or Epoxy shop primer. The primer is applied by roller. If the primer has cured more than 24 hours, the primer needs to be grinded with sandpaper and thoroughly cleaned (free from dust, oil, etc.) before applying the Marlon Poly-Marine system.

Concrete/wood

The concrete must be dry (less than 5% humidity) and clean. The surface must be grinded followed by vacuum cleaning. The concrete is then ready for application of a suitable PU or Epoxy primer by brush or roller. Before application, all solvents must have evaporated. If primer has cured more than 24 hours, a second coat must be applied before application of Marlon Poly-Marine.

Aluminum

The surface must be grit blasted or grinded to get a good profile in the surface. Use a suitable wash primer for aluminum and use the same method as with steel.

Galvanised steel

The galvanized steel must be grit blasted to remove the excess salts from the galvanized surface. Use the same primer and method as with steel.

Asphalt

The asphalt must be dry and clean. It is not necessary with a primer on asphalt.

Cleaning

Tools and equipment are cleaned with a solvent.

Safety datasheet

See our material safety datasheets.

Shelf-life

Min. 12 months in temperatures between 5°C - 25°C (41°F - 77°F) in unopened containers. Do not expose to moisture, freezing temperature and direct sunlight.



A solid solution



Product information

Basis

Three component polyurethane system.

Colour

Dark grey

Chemical base

A-Comp: Polyol with fillers, additives and pigments.

B-Comp: MDI isocyanate hardeners

C-Comp: Quartz sand

Density

Applied approx. 1.4 kg/mm/m²

Viscosity at 20°C (68°F)

Ready-mixed 7400 cP

Hardness/shore D

48 hours at 20°C (68°F): 65 D

7 days at 20°C (68°F): 71 D

Pot life

At 20°C (68°F) – approx. 15 min.

Consumption

Approx. 2-3.5 kg/m² (4.41-7.71 lb/m²) depending on the chosen system.

Application temperature

Min. 5°C - 35°C (41°F - 95°F) Max. 80% RH.

Surface temperature

Min. 3°C (37°F) above the dew point.

Curing time

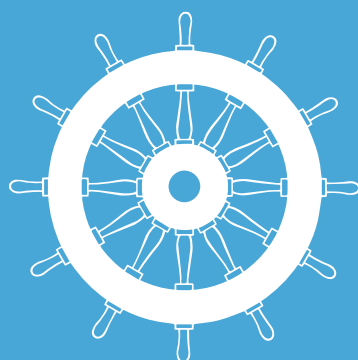
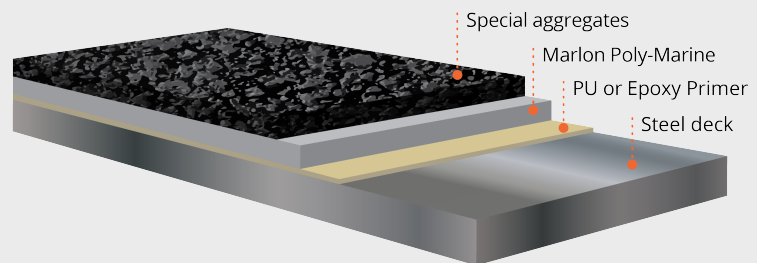
Setting time for walking, approx. 1-2 hours. Ready for traffic, approx. 3-4 hours, depending on temperature.

Packaging

Marlon Poly-Marine is delivered in preweighted cassettes of 20 kg (44.1 lb).

MAL-Code

00-4



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