

Poly-Marine *Anti-Skid System*

Product description

Poly-Marine system is a three component polyurethane system, designed as a flexible binder for anti-skid treatment to carriageways, road bridges, link spans, RO/RO ramps and decks, and the decks of multi-storey car parks. Special aggregates must be spread on top of the wet Poly-Marine slurry. Total thickness is 2-10 mm depending on the actual installation.

Surface preparation

Blacktop: Asphalt must be completely dry and clean, (free from dust, oil, etc.)

Steel: Shot blast min. SA 2.5. Must be clean, dry and free from dust, grit, rust, grease etc.

Galvanized steel: Must be clean, dry and free from dust, grit, rust, grease and other dirt. Grit blast substrate to get rid of existing salts from the galvanized surface. Treat with shop primer.

Aluminum: Must be clean, dry and free from dust, grit, rust, grease and other dirt. Grit blast substrate to obtain a good profile. Treat with wash primer for aluminium.

Concrete and wood: Must be clean, dry (max. 5% humidity) and free from dust, grit, rust, grease and other dirt. Priming with suitable epoxy primer (min. adhesion 1.5 N/mm²) is obligatory. Apply primer with steel trowel or roller, consumption approx. 250 g/m². Allow primer to fully cure, before applying the Poly-Marine system.

Primers

Galvanized steel: PUR Primer. Aluminium: Wash Primer. Concrete and wood: Epoxy primer.

Asphalt: No primer. Steel SA 2.5: no primer

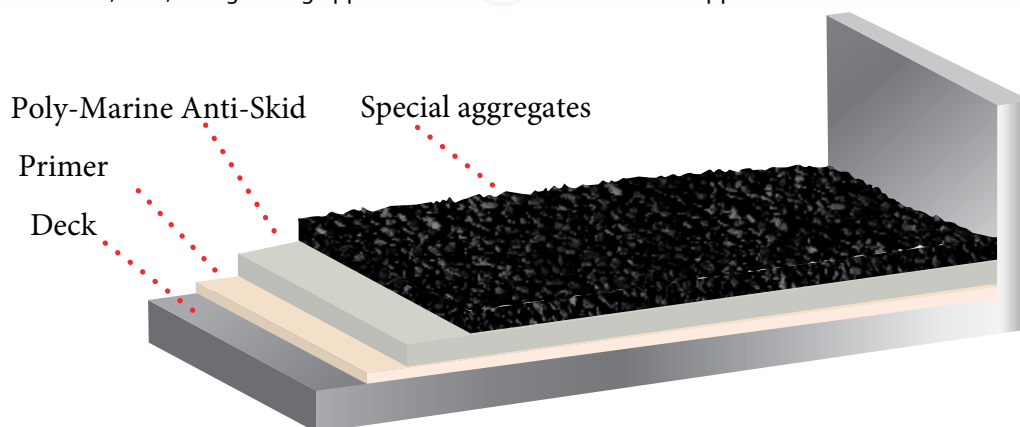
Mixing and application

One set of Poly-Marine consists of three pre-weighed components, total weight 24 kg. First, intermix comp. A & comp. B components, then transfer mixture to other container and mix with comp. C (Quartz). The Poly-Marine is then ready for application.

Application is done by pouring the mixed material onto the substrate and distribute it using a toothed steel trowel. The special aggregates are then, within 10 minutes after application, strewn densely and evenly into the wet Poly-Marine compound. Excess unbound aggregates can be removed by sweeping, after 4 hours.

Curing / dehydration

At +20°C and max. 80 % relative humidity the compound will cure after approx. 3-4 hours. Curing time depends on the ambient temperature and substrate temperature. Ready for traffic after approx. 6-8 hours. (Fully cured after approx. 7 days) Do not expose to water, mist, or fog during application or within 24 hours after application.



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Technical description

Basis	Three component polyurethane system
Colour	Black
Density	Approx. 2 kg/mm/m ² (applied)
Thickness	2 - 10 mm depending on the size of the Special aggregates
Pot life	Approx. 15 minutes at 20°C and 80 % RH
Curing time	Setting time for walking, approx. 3-4 hours. Open to traffic after approx. 6-8 hours at 20°C (Fully cured after approx. 7 days)
Recommended application temperature	Between +5°C and +35°C (Applies also for substrate) Max. 80% RH
Bending tear strength EN 13892-2	5 MPa
Compression strength EN 13892-2	5 MPa

Packaging

- 24 kg set - Poly-Marine (10 kg A, 2 kg B, 12 kg C (Quartz))
- 25 kg special aggregates

Cleaning

Tools and equipment must be cleaned with a solvent.

Shelf-life

The shelf-life is min. 24 months in unopened packaging.

Storage

In dry conditions, do not expose to moisture or freezing temperature.

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