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ME-102 MATIFLOOR-R

Two-component, roller-applied epoxy coating.

PACKAGING
12kg

MIXING RATIO
10kg + 2kg

CONSUMPTION
varies from the application case

Description

ME-102 MATIFLOOR-R is a two-component, pigmented epoxy system designed to deliver high mechanical strength and excellent resistance to abrasion. It exhibits strong chemical resistance to both organic and inorganic acids, alkalis, petroleum-based substances, waste materials, water, seawater, and atmospheric exposure. The system maintains its performance across a wide temperature range, from –30 °C to +100 °C under dry conditions, and up to +60 °C under wet service conditions.

Area of Use

ME-102 MATIFLOOR-R is applied by roller as a protective floor coating in areas where high mechanical performance and chemical resistance are required. It is suitable for use on cementitious substrates, such as concrete and cement-based mortars, as well as on metal surfaces, including steel and iron. Typical applications include industrial facilities, warehouses, laboratories, hospitals, wineries, slaughterhouses, food-processing and canning plants, garages, and automotive service workshops, among other demanding environments.

Substrate Preparation

The substrate must be dry and stable, and free from any substances that could affect adhesion, such as dust, loose particles, oils, grease, or other contaminants. Also protected from negative water pressure. Cementitious surfaces should be primed with ME-212 MATIFLOOR-PR.
In addition, the following substrate conditions must be satisfied:

a) Cementitious substrates
Concrete strength class: minimum C20/25
Cement screed quality: cement content of at least 350 kg/m³
Substrate age: minimum 28 days
Residual moisture: less than 4%

b) Iron or steel substrates
Surfaces must be sound, clean, and free from rust or corrosion that could impair adhesion.
Depending on the substrate condition, appropriate surface preparation methods should be used, such as wire brushing, grinding, sandblasting, water jetting, or shot blasting.

Following preparation, all dust and loose particles must be removed using a high-suction industrial vacuum cleaner.

Components A (resin) and B (hardener) are supplied in separate containers, pre-dosed at the correct mixing ratio by weight.
Before combining, Component A should be mechanically pre-mixed for approximately 1 minute. Component B is then added in full to Component A, and the materials are mixed continuously for about 3 minutes using a low-speed mixer (≈300 rpm) until a uniform blend is achieved. Special care must be taken to scrape and mix material from the sides and bottom of the container to ensure proper distribution of the hardener. For optimal homogeneity, the mixture should then be transferred to a clean container and mixed again for at least 1 additional minute until a completely consistent mixture is obtained.

Application - Consumption

Depending on the required appearance and performance of the finished surface, ME-102 MATIFLOOR-R may be applied using one of the following methods:

a) Smooth finish
ME-102 MATIFLOOR-R is applied by roller in two coats. The second coat is applied once the first has dried, but within 24 hours.
Indicative consumption: approximately 250–300 g/m² per coat.

b) Slip-resistant finish
ME-102 MATIFLOOR-R is applied by roller in one coat. Indicative consumption: approximately 250–300 g/m².

While the coating remains wet, quartz sand is broadcast over the surface. The selected particle size (0.1–0.4 mm or 0.3–0.8 mm) depends on the desired level of slip resistance. Quartz sand consumption: approximately 3 kg/m².
After ME-212 MATIFLOOR-R has fully cured, all loose aggregate must be removed using a vacuum cleaner. A final sealing coat of ME-212 MATIFLOOR-R is then applied.
Final coat consumption: 400–600 g/m².

Features

Technical Data (IN +23°C AND 50% U.R.)

Form	2 Component epoxy resin
Colours	RAL 7032 (pebble grey) RAL 7035 (light grey) Other colors upon order
Viscosity	~ 1,900 mPa.s at +23°C
Density (A+B	1.46 kg/l
Mixing ratio (A:B)	100:20 by weight
Pot life	~ 40 min at +20°C
Reaction to fire	Bfl - s1*
Minimum hardening temperature	+8°C
SHORE D hardness	80
Walkability	after 24 h at +23°C
Recoat	after 16 h at +23°C
Final strength	after 7 days at +23°C
Abrasion resistance (ASTM D 4060, TABER TEST, CS 10/1000/1000)	76.6 mg
Abrasion resistance (EN 13892-4)	< 50 µm
Compressive strength (EN 13892-2)	≥ 52 N/mm2
Flexural strength (EN 13892-2)	≥ 34 N/mm2
Adhesion strength	≥ 3 N/mm2
Solid content	~100%

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