

MPU M02W POLYURETHANE CEMENT



图片暂时放在这里，需要根据品名更换

DESCRIPTION:

M02W is a three-component, water-based, colored polyurethane-modified cementitious screed composed of cement, aggregates, and fillings.

It builds up a high film thickness with a good mechanical strength. It features self-leveling properties, resulting in a smooth, aesthetically pleasing surface with a textured aggregate finish. M02W provides moderate slip resistance and is typically applied at a thickness of 3 to 6 mm.

FEATURES:

High Strength and Durability: Provides excellent mechanical strength and long-term durability, suitable for heavy-duty applications.

Self-Leveling Properties: Ensures a smooth, even surface with minimal manual intervention, ideal for achieving flat and level floors.

Chemical Resistance: Resistant to oils, chemicals, and abrasion, making it suitable for industrial and commercial environments.

Adhesion: Strong bonding to various substrates, including concrete, ensuring a reliable and long-lasting finish.

Crack Resistance: Enhanced flexibility and crack-bridging properties to withstand structural movements and stresses.

CONSTRUCTION SITES:

It is primarily used in industrial flooring for both wet and dry processing areas, cold storage and freezing zones, warehouses, and storage areas. It is widely applied in food processing plants, chemical processing plants, pharmaceutical factories, and any industry requiring durable flooring solutions.

NOTE: call our technical department about the application to other substrates or situations.

DESIGN CRITERIA:

M02W is designed for application in one coat.

APPLICATION METHOD:

Previous preparation of the substrate according to its type. Existing holes or areas with a lack of material must be repaired. General cleaning of the substrate, removing existing dust, dirt, grease or efflorescence. The substrates must be resistant and cohesive. Check the maximum degree of moisture permittivity of the substrate.

Mix and stir the components using a mechanical shaker for approximately 4-5 minutes (medium speed). Apply the thin coats until the desired planimetry is achieved. Consumption between 6 and 8 kgs/sqm depending on the roughness of the substrates.

NOTE: For other types of substrates, weather conditions or final use, consult our technical department

MPU COAT M02W

TECHNICAL DATA:

NO.	ITEM	VALUE
1	The weight of component A	3kg
2	The weight of component B	3kg
3	The weight of component C	14kg
4	Density of mixed resin	2.08kg/l @23°C
5	Volume ratio of cured components	100%
6	Weight ratio of cured components	100%
7	Shore D	80-92 (14 days / +23 °C)
8	Tensile Strength	Appr. 19.6 N/mm ² (14 days / +23 °C)
9	Elongation at break	Appr. 25% (14 days / +23 °C)
10	Adhesive Tensile Strength	2.0 N/mm ² (concrete failure) > 3.0 N/mm ² (aluminum, steel)
11	Mixing ratio (in weight)	14:6
12	Dosage	6.0-8.0 kg/m ²
13	Inter layer thickness	3mm
14	Ambient atmospheric temperature	Minimum +10 °C / Maximum +30 °C
15	Relative humidity of air	Maximum 80% relative humidity
16	dew point	The substrate should be at least 3° above the dew point to reduce the risk of condensation and floor cracking.
17	Substrate temperature	Maximum 80% relative humidity
18	Water content of the substrate	< 4% pbw
19	Operating time	10°C @ 24 hours 20°C @ 18 hours 30°C @ 12 hours
20	Curing time	10 °C, 40 hours 20 °C, 25 hours. 30 °C, 20 mins

CONSTRUCTION NOTES:

Mixing Ratio:

- The weight ratio of Component A to Component B to Component C is 3:3:14 (A:B:C).

Mixing Instructions:

- Mix the components thoroughly for 3–5 minutes manually or mechanically, until a uniform consistency is achieved.
- The mixed primer must be applied within 30 minutes using a roller or brush.
- NOTE: Do not add any thinning agents or foreign materials to the primer.



TDS. TECHNICAL DATA SHEET

MPUCOAT M02W

HEALTH AND SAFETY:

Respiratory Protection:

When handling or spraying, always use an air-purifying respirator to protect against inhalation of harmful substances.

Skin Protection:

Wear rubber gloves and remove them immediately if they become contaminated. Ensure your body is fully covered with clean, protective clothing. After completing work, and before eating, drinking, or smoking, wash thoroughly with soap and water.

Eye/Face Protection:

Wear safety goggles to prevent splashes or exposure to airborne particles.

Waste Management:

Minimize or avoid waste generation whenever possible. If waste is produced, incinerate it under controlled conditions in compliance with local and national regulations.

Re-occupancy Guidelines:

Do not re-enter the work area without respiratory protection for at least 24 hours after spraying, ensuring proper ventilation is maintained.

Compliance:

Contractors and applicators must adhere to all applicable storage, safety, and handling guidelines.

These safety measures are critical during the implementation process, as well as before and after exposure to loading machinery.

Waste Disposal:

Dispose of all waste in accordance with state and/or local regulations.

These precautions are essential to ensure the health and safety of all individuals involved in the process

RECOMMEND TOOLS:

The product can be applied manually using methods such as: trowel or scraper application, brushing with a short-bristle brush, or roller coating with a durable, short-nap roller. For a more efficient and even application, specialized spraying equipment can also be used.

RECOMMEND USAGE:

Normally, it is about 6.0 -8.0kg /m² , and the thickness of one-time construction is about 3mm.

PACKING:

Component A, 3kgs/pail, (with pigments)

Component B, 3kgs/pail.

Component C, 14kgs/pail.

STORAGE AND TRANSPORTATION:

The liquid should be sealed and stored in a dry, cool, and well-ventilated area, away from direct sunlight, rain, and any sources of fire.

When kept in its original packaging and under the prescribed storage conditions, the product has a shelf life of 6 months from the date of production.

After opening the drum, please use the product as soon as possible and reseal the container when not in use.

The materials should be stacked stationary and handled carefully during transportation to avoid any violent collisions.

DISCLAIMER:

The information provided in this Technical Data Sheet (TDS) is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. We warrant that our products will meet our written liquid component specifications. The customers are advised to conduct their own tests and evaluations to ensure suitability for their intended application. Always follow local regulations, safety guidelines, and manufacturer recommendations.