

MA Q-PROOF PU21

Polyurethane hybrid waterproofing membrane



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POLYURETHANE HYBRID WATERPROOFING MEMBRANE

I. DESCRIPTION:

MA Q-Proof PU21 is a one component, Polyurethane hybrid dispersion based, liquid applied membrane for roof waterproofing. It features enhanced resistance to ponding water, excellent UV resistance, good crack-bridging capability, and great esthetics.

II. USES:

MA Q-Proof PU21 is used for:

- Concrete roofs, balconies, terraces.
- Basements, tunnels, foundations.
- Restroom floor areas, wet areas.
- Planter locations, inspection pits, swimming pools.

III. ADVANTAGES:

- One component, Ready to use
- Easy to apply. Economic efficiency.
- Good UV resistance and weathering.
- Excellent adhesion to concrete.
- Highly elastic and crack-bridging.
- Waterproof membrane and protects against the intrusion of harmful components from soil conditions.
- Non-flammable, non-toxic, free from lead, mercury, and other hazardous chemicals, safe for workers and users.
- Environmentally friendly.

IV. PRODUCT INFORMATION:

Data	MA Q-Proof PU21
Base	Polyurethane hybrid polymer
Apperance	Liquid
Colour	Grey and white
Density	1.27 ± 0.03 kg/liter
Comsumption	0.6 - 0.8 kg / m2 / layer (*)
Applying surface	Concrete or cement mortar
Drying time to touch	2 hours (depending on environmental conditions)
System structure	2 - 3 layers
Packaging	5kg & 20kg in plastic pail
Shelf life	12 months (in original packaging)
Storage condition	- In unopened, original packaing. - Dry, cool, shade place (≤ 30oC)

(*) Depending on the surface and applying technique.

V. APPLICATION:

Surface preparation:

- Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed.
- Repairs to the substrate, filling of joints, blowholes, voids and surface levelling must be carried out using appropriate products from MA.

Primer:

- Applying **MA AQUA PRIMER** with consumption is 0.1 - 0.2 kg/m².
- **MA Q-Proof PU21** should be applied after the primer has just set, typically around 2-4 hours.
- If **MA Q-Proof PU21** is not applied within 48 hours after the primer, the surfaces must be re-primed.

Applying:

- Prior to application, stir **MA Q-Proof PU21** thoroughly for 1 minute in order to achieve a homogeneous mixture. Over mixing must be avoided to minimise air entrainment.
- Applying **MA Q-Proof PU21** by brush, roller or spraying with consumption is 0.1 0.6 - 0.8 kg / m² / layer.
- The first layer must be dry within 12 hours before applying the second layer. The second layer is applied in perpendicular directions with the first layer.
- For vertical surfaces, to achieve the precise thickness of the membrane, it is recommended to apply 2 layers with a lighter load to avoid sagging, especially in high-temperature environments.
- If the surface needs to be tested for water afterward, a minimum waiting period of 3 days is required.
- Protect the waterproofing layer from water from 60 to 120 minutes until it is dry to the touch.

Notes:

- All corners that are perpendicular must be coated

with a layer of mortar at the corner to create a slope with a minimum size of 25×25mm before applying **MA Q-Proof PU21**.

- All edges, protrusions, and indentations need to be treated beforehand by applying **MA Q-Proof PU21**, extending 50 to 100mm on both sides of the detail. These treated areas should be allowed to dry overnight before applying the waterproofing layer..
- In necessary areas, **MA Q-Proof PU21** can be reinforced using suitable fiberglass mesh.
- To provide additional protection for the **MA Q-Proof PU21** waterproofing layer, a cement mortar layer can be applied on top. This mortar should be mixed with **MA Latex P100** at a ratio of 5 liters of **MA Latex P100** for 1 m³ of cement mortar.

Cleaning:

- Clean all tools and equipment with water immediately after use. Hardened mortar can only be removed mechanically.

VI. SAFETY INFORMATION:

PPE: Wear suitable protective clothing, goggles and gloves during working with this product.

Ecology: Do not dispose into drains, water or soil.

Transportation: Non-hazardous.

Waste disposal: According to local law..

Refer to the Product Safety Data Sheet (MSDS) and other relevant safety documentation.

M-ATLANTIC



CONTACT US.

 +84 337 817 565

 export@m-atlantic.com

 <https://m-atlantic.com>

 Epic Tower Building, No. 19 Duy Tan, Cau Giay Ward,
Hanoi City, Vietnam

