

AQUAFLEX ROOF MY

Ready-to-use, flexible, liquid-applied, seamless membrane for waterproofing of exposed surfaces



WHERE TO USE

For waterproofing

- Metal and concrete roofs;
- Balconies and terraces;
- Guttering and downpipes;
- Cupolas and curved roofs.

Aquaflex Roof MY may be applied on:

- Ceramic and stone dressings;
- Cementitious screeds and screeds made using special binders (**Topcem** and **Topcem Pronto**);
- Concrete;
- Metal sheet roofing.

TECHNICAL CHARACTERISTICS

- **Aquaflex Roof MY** is a ready-to-use, liquid-applied waterproofing membrane for external applications made from synthetic resins dispersed in water.
- **Aquaflex Roof MY** is resistant to all atmospheric conditions and UV rays, and provides long-lasting protection for the substrate.
- **Aquaflex Roof MY** is easy to apply using a longhaired roller or brush on horizontal, sloping and vertical surfaces.
- Once dry, **Aquaflex Roof MY** forms a strong, seamless, flexible and tack-free waterproofing membrane suitable for occasional light foot traffic.
- Thanks to its flexibility, **Aquaflex Roof MY** is compatible with normal dynamic expansion and contraction stresses caused by temperature variations and vibrations.
- **Aquaflex Roof MY** (White) with a high solar reflectance of 77%, thermal emissivity of 88%, and a solar reflectance index (SRI) of 95, helps lower the working temperature of roofs and reduces the heat island effect.

RECOMMENDATIONS

- Do not use **Aquaflex Roof MY** if the temperature is lower than +5°C or higher than +35°C, or if rain is imminent.
- Do not apply if there is dew on the substrate.
- Application at relative humidity of 85% or higher is not recommended as the product may suffer delayed curing.
- Do not apply **Aquaflex Roof MY** on substrates with a residual humidity level of > 2.5% or on substrates with rising damp.
- Do not apply **Aquaflex Roof MY** on weak or dusty substrates.
- Do not apply cementitious mortars directly onto **Aquaflex Roof MY**. Use an alkaline-resistant barrier before over-laying with such toppings.
- Protect **Aquaflex Roof MY** from rain until it is completely dry.

APPLICATION PROCEDURE

Preparing the substrate

- All substrates, whether they are new or old, must be solid, clean, dry and free of all traces of oil, grease, old paint, rust, mould and any other material which could compromise the bond.
- All sharp protrusions must be ground smooth.
- Concrete and cement substrates must be solid and dry with no rising damp. Any loose parts must be removed.
- Any hollows in the surface must be repaired with the **Mapegrout** range of mortars and allowed to cure fully.
- All wax, water-repellent treatments, etc, must be removed with a suitable detergent and/or by sanding.
- Surfaces to receive **Aquaflex Roof MY** must have a minimum gradient of 1:120 in order to avoid water ponding on the waterproofing membrane.
- Before applying **Aquaflex Roof MY**, pay particular attention to the expansion joints and the fillets between horizontal and vertical surfaces, which must be waterproofed using **Mapeband Easy** bonded to the substrate with **Aquaflex Roof MY**.
- Structural joints must be waterproofed with **Mapeband TPE** bonded in place with **Adesilex PG2 TG**. Use a suitable kit from the Mapei **Drain** range to seal water outlets.

Priming

- Prime new concrete substrates by using a mixture prepared with **Aquaflex Roof MY** and clean water at a ratio of 1:1. Allow priming coat to dry prior to the first neat coat. This usually takes approximately 30 minutes at 30°C.
- For porous or old concrete substrates, prime with **Primer G** at the rate of 0.2-0.3 kg/m² (depending on the substrate porosity).
- When applying the product on non-rusted, metal substrates, thoroughly clean the surface and apply a coat of **Eco Prim Grip Plus** primer.

Preparation of the product

The product is supplied ready to use. If necessary, mix the contents to blend the product thoroughly.

Application of the product

Aquaflex Roof MY must be applied with a long-haired roller, brush, trowel or airless spray at the rate of 0.5 – 0.6 kg/m² per coat. Wait until the first neat coat is completely dry (approximately 2 to 4 hours under normal conditions such as 30°C, 80% relative humidity) before applying the second coat. Apply in a direction perpendicular to the previous coat.

Where the area of application is subjected to high movement, or to bridge micro-cracks, joints and seams, or when additional durability is required, embed a layer of **Mapetex Geo 2280** or **Mapetex GRP 225** fabric into the first coat when it is still wet, followed by the second and third coats of **Aquaflex Roof MY** at the same application rate. Protect **Aquaflex Roof MY** membrane from rain until it is completely dry.

CLEANING

Tools must be cleaned with water immediately after use.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	paste
Colour:	grey & white
Density (g/cm ³):	1.25
Dry solids content (by weight) (%):	63
Brookfield viscosity (mPa·s):	40,000

APPLICATION DATA (at 30°C at 80% R.H.)

Application temperature range (°C):	from +5 to +35
Waiting time between coats (hrs):	approx. 2 to 4
Set to light foot traffic (hrs):	8
Ready to use (days):	3

FINAL PERFORMANCES

Elongation at breakage (ISO 37) (%):	240
Tensile strength (ISO 37) (N/mm ²):	2.2
Bond strength to concrete (EN 1542) (N/mm ²):	1.3

OTHER PERFORMANCES CHARACTERISTICS (for Aquaflex Roof MY White)

Solar reflectance* (ASTM C1549-09) (%):	77
Thermal emittance* (ASTM C-1371-04a (2010)e1):	0.88
SRI (Solar Reflectance Index)* (ASTM E-1980-11):	95

*-Test report ref. S 6147/LCA issued by Setsco Services (M) Sdn Bhd

CONSUMPTION

- 0.3 kg/m² for priming coat.
- 0.5 – 0.6 kg/m² per neat coat.

PACKAGING

Aquaflex Roof MY is available in 25 kg pails.

STORAGE

Aquaflex Roof MY may be stored for up to 12 months in its original, unopened packaging in a dry place. Protect from freezing weather.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com.sg

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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