



# POLYFLEX MS DETAIL MEMBRANE TDS – TECHNICAL DATA SHEET

## POLYFLEX MS DETAIL MEMBRANE

### PRODUCT DESCRIPTION

Single component, semi- fluid, ready-to-use, solvent and isocyanate free, UV resistant, high technology coating and waterproofing material, produced with MS Polymer hybrid technology.

Polyflex MS Detail Membrane is a medium viscosity product used for covering and repairing cracks up to 5mm on horizontal and vertical can be used for waterproofing of horizontal and vertical surfaces.

### APPLICATION AREAS

- Indoor and outdoor,
- Waterproofing, flexible bonding and local repairs of vertical and horizontal inclined surfaces,
- On almost all kinds of mineral surfaces, such as concrete, stone, marble, ceramic, tile, all kinds of wood, glass, metal, tile, brick, cement mixed chip panel, gas concrete and their combinations,
- Balconies, terraces or pitched roofs where waterproofing is required, on wood and metal surfaces, in intersections of chimneys, ventilations and skylights,
- Wet areas such as bathrooms and kitchens,
- Places below ground level, such as foundations, garage and basements, against non-pressurized water and ground moisture.

### FEATURES & BENEFITS

Polyflex MS Detail Membrane is an MS Polymer based product with high technical qualifications, developed with Japanese technology. MS Polymer technology has important advantages compared to existing polyurethane, silicone, bitumen or cement-acrylic based coatings:

- Does not contain solvent and isocyanate which are harmful to human health and to the environment.
- Has 100% elastomeric composition, does not shrink as it does not contain solvent.
- Resistant to UV, does not crack, sag or turn yellow. Can be safely used outdoor.
- Bonds even on damp surfaces, provides high adherence.
- Is not harmful to human health and to the environment thanks to its low VOC values. Almost odourless.
- Easily and quickly applied with a spatula, trowel or comb. Does not form seams.
- Over paintable
- Very flexible, can cover and fill the cracks up to 5mm. Keeps its elasticity and bonding properties in joints and cracks caused by the movements of the buildings. Turns to its original form perfectly.
- Protects its elasticity even in low temperatures, when cured.



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Polyflex MS Detail Membrane is a new generation product which offers all these advantages in a single product.

## TECHNICAL DATA

PROPERTY	VALUE
Appearance	Medium viscosity elastomeric fluid liquid coating
Colour	Please see the color chart
Density	1.45 ± 0.05 kg/L
Application Temperature	Between +5°C and +35°C
Hardness (Shore A)	50 ± 5
Bond Strength by Pull-off	≥ 2.0 MPa (EN 1542)
Elongation at Break	> 200% (7 days)
Capillary Absorption and Water Permeability	w < 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (EN 1062-3) 0.018 kg/(m <sup>2</sup> .h <sup>0.5</sup> ) (TS 4045)
Film Formation Time	100 + 30 minutes
Curing Rate	3mm / 24 hours
Service Temperature	-30°C / +80°C

## CONSUMPTION

1.40 - 1.50kg/m<sup>2</sup> for approximately 1mm thickness in each layer. (Varies depending on the application area, roughness and absorption of the surface.)



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## APPLICATION

### Preparation of the surface

- The surface have a minimum fall of 1:80, must be clear of materials that prevent bonding such as dust, oil, tar, paint, silicone, curing materials, detergents and mould oils.
- Repair the weak parts of the concrete, remove poorly adhered pasters; make the surface sound and solid. Repair the static cracks in the building with a mix of kiln dried sand and Rubberseal's PU based primer. Fill the dynamic (moving) cracks with Rubberseal's appropriate MS hybrid or Polyurethane sealants.
- Under normal conditions, there is no need for primer. However, if the surface is dusting or excessively wet, prime with Rubberseal's PU based primer. Apply the product within 24 hours after priming.

Flat roofs should be installed compliant with BS 6229:2018 (Flat roofs with continuously supported flexible waterproof coverings)

### Application

- Polyflex MS Detail Membrane is ready-to-use. Do not dilute or add any external substance. Mix before use.
- Cut the aluminium packaging of Polyflex MS detail Membrane from the top corner in a triangle shape with scissors and pour directly onto the surface. Apply with a spatula, flat or notched trowel.
- If Polyflex MS detail Membrane is used for repairing or bonding, apply a single layer. If it is used as a liquid membrane, wait 6 - 12 hours after the application of the first layer.
- Apply the second layer when the first layer is walkable. In deep cracks that may collapse after the first layer, apply the second layer within 12 - 24 hours.
- For smooth finish at the borders, surround the application area with masking tape. Remove the tape in 5 minutes after application.
- The area can be open for use in 24 - 48 hours, final curing takes places after 7 days.



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## CAUTION

- Avoid application at the temperatures below +5c and above +35c.

There are 1 aluminium package of 7kg in the 7kg bucket to prevent fast curing of the product during application. The packages are designed for single use. Use the product completely within the specified duration when opened.

- Do not add water or thinning solvent to the product.
- After the application, protect the surface from water, rain, dew, frost and snow until it is completely dry.

## PACKAGING

7kg plastic buckets (7kg aluminium foiled package)

## SHELF LIFE

Expires in 12 months. Store unopened packages between +10c and +25c, in a dry environment. Protect from sunlight, stack up to 3 packages on the pallet.

## HEALTH AND SAFETY

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with health and safety guidelines. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not leave the cover open. Store out of the reach of children.

The information herein 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. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use.

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