

MONNELI ELASTOGUM

High Elastomeric Acrylic Waterproofing Membrane

Product Description

An acrylic high build waterproofing membrane incorporating the most recent advances in polymer technology. It shows significant advances in the areas of film build, adhesion, penetration, application and durability. Once dried, it forms an elastic, continuous waterproofing membrane resistant against thermal changes, ultraviolet rays, diluted acid solutions and permeable to steam.

Uses

ELASTOGUM adheres perfectly to several supports as, concrete, asbestos cement, gypsum boards, plaster boards, all cement surfaces, anhydrite screeds, woods, metallic surfaces, stucco, EIFS etc.

- As waterproofing and protective coating and for wet areas not exposed to pressurized water, such as showers, kitchen, bathrooms, residential buildings and hospital
- Can be used as a waterproofing coating on horizontal and vertical surfaces on top of concrete, metal, asbestos, stucco etc.
- Used as a part of the waterproofing system for roofs, terraces, balconies, shower stalls, etc.

Advantages

- Single component water based. Ready for use direct from container
- Water based acrylic formulation
- Easy water cleanup
- Excellent UV and Weathering Resistance
- Excellent Chloride Ions and Carbon Dioxide diffusion resistance
- Can be applied to both vertical and horizontal surfaces
- Can be applied to wide range of substrates

- Highly flexible - accommodates movement and minor cracking substrates

Instructions for Use

Surface Preparation

The surface of the concrete shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

When needed, use mechanical methods like grinding or grit/captive blasting in order to remove deep contamination.

Moss and lichen must be removed physically followed by treatment with fungicidal wash. After treatment, it must be washed down thoroughly with clean water and allow to dry.

Crack Treatment

Shrinkages and non-moving structural cracks less than 1.0mm shall be filled with a pre-treatment strip of MANTOFLEX of 1.0mm thick extended to 75 mm on both sides of the crack.

Voids and honeycombs shall be patched with EPOFINISH C or BETOFINISH C allowing the area to cure before applying the membrane.

Right Angle Bends

All right angle bends must have a coving detail installed. In areas where parapet walls, columns, pipe penetrations are present, a 45° coving fillet shall be made at all corners using BETOCEM FIBER, a Fiber reinforced shrinkage controlled mortar for concrete repair to the water saturated cured surface.

All other angles, joints, protrusions and stress joints should be pre-treated with a heavy application of ELASTOGUM extending 150mm on both sides of the coving.

Allow the patched area to cure before applying the membrane.

Movement Joints

Expansion and movement joints should be sealed with ELASTOSEAL PU25, a polyurethane sealant.

Allow to cure before the application of ELASTOGUM.

Mixing

ELASTOGUM should be stirred before use until a uniform color and consistency is achieved. Product is ready for use.

Application

ELASTOGUM shall be applied by brush, roller, or airless spray in 2 coats to achieve a minimum dry film thickness of 0.5 mm for each coat. The two coats must be applied at right angles to one another once the first coat completely dries.

Substrates that are exposed to movements and deformation or where cracks are expected, reinforcing glass fibre mesh shall be spread into the first coat of ELASTOGUM before applying the second coat.

A layer of ARMOFLEX, fiber glass sheet should be embedded between the two ELASTOGUM coats over pipe culverts, floor drains, corner joints and floor / wall junctions.

It is recommended to spread sufficient clean silica and to the final wet coat of ELASTOGUM before applying adhesives. Tiling or finished floor installations should be carried out as soon as possible after full cure of membrane is established.

Cleaning

All the tools employed for the application of ELASTOGUM can be cleaned with water before the product hardens. Cured material shall be removed mechanically.

Recommendations

- Do not apply the product if temperature is less than +5°C, or with humidity more than 90%.

- Protect ELASTOGUM coating from rain high temperature or from pedestrian traffic till it completely cures.

Technical Data

Properties	Results
Appearance	Dense paste
Standard color	White, grey other colors available on request
Density at 25°C	1.25 kg/L
VOC	Negligible
Solid content	>60%
pH at 25°C	8.5– 9.0
% Elongation (ASTM D412)	> 550%
Tensile strength (ASTM D412)	1.2 N/mm ²
Recovery from 100% elongation (7 days) (ASTM D412)	90%
Modulus of elasticity at 100 % elongation (ASTM D412)	0.1 N/mm ²
Adhesion strength	> 1.0 N / mm ²
Cracking bridging (ASTM C1305)	>2mm
Chemical resistance	Resistant to diluted, alkalis, diesel, petrol
Superficial film formation at +25°C	1.5 hours
Complete hardening at +25°C	7 days
UV Resistance (ASTM D822)	No effect after 5,000 hours
Water permeability	High resistance to water penetration
Shore A hardness	45 – 50

All values are subject to 5-10 % tolerance

Consumption

2.1kg /m² for 1mm thickness

Packaging

ELASTOGUM is supplied in 20 kg plastic containers

Storage

Keep the product at a temperature not less than +5°C and not more than +30°C in a tightly closed container. In these conditions ELASTOGUM maintains its characteristics unchanged for 12 months.

Health & Safety

Use only in well-ventilated area. In case of contact with eyes rinse immediately with plenty of sweet water and seek medical advice.

Use gloves and goggles during application.

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