

GUAINA ESIN MR11

FLEXIBLE AND WATERPROOF ACRYLIC CEMENTITIOUS MEMBRANE

GUAINA ESIN MR11 IS THE TECHNICAL SOLUTION DESIGNED TO ENSURE WATERPROOFING, BOTH IN DIRECT AND INDIRECT THRUST, OF CEMENTITIOUS MANUFACTURES AND HYDRAULIC WORKS. ITS EXCELLENT ADHESION TO THE SUBSTRATE, HIGH FLEXIBILITY AND MARKED IMPERMEABILITY MAKE IT POSSIBLE TO CREATE A CONTINUOUS, FLEXIBLE AND WATER-REPELLENT COATING, ABLE TO GUARANTEE PROTECTION AND CONTAINMENT OF WATER WITH THE MAXIMUM GUARANTEE OF SEALING AND DURABILITY OF THE INTERVENTION. FLEXIBLE ACRYLIC CEMENTITIOUS MEMBRANE, HIGHLY DEFORMABLE AND PERFECTLY WATERPROOF. SPECIFIC FOR COATING AND WATERPROOFING INTERVENTIONS ON STRUCTURES AND ARTIFACTS IN DIRECT (MOMENTARY OR SEMI-PERMANENT) CONTACT WITH WATER. IS USED FOR WATERPROOFING TERRACES, SHOWER STALLS, SWIMMING POOLS, TANKS, CANALS, WALLS AGAINST THE GROUND, FOUNDATIONS. IS RECOMMENDED AS A COATING TO PROTECT CONCRETE ELEMENTS EXPOSED TO THE ACTION OF ATMOSPHERIC AGENTS OR FOR THE REMEDIATION OF CRACKED PLASTER.



PAPER BAG + CANISTERS

FEATURES

Component A appearance	gray-colored powder
Component B appearance	milky emulsion
Use	continuous membrane for waterproofing work
Condition	indoor - outdoor
Suitable substrates	traditional cement-based type screeds, ready-made screeds, concrete products (swimming pools, pools, canals, culverts, elevator shafts, terraces, shower stalls), cement-based plasters and mortars, pre-existing ceramic floors
Overlayable materials	polymer-modified tile adhesives acrylic-based paints and coatings
Waiting time for overlay	72 hours
Application temperature	+5°C to +35°C.
Laying tools	smooth stainless steel trowel -brush
Minimum applicable thickness	2 mm
Maximum thickness per coat	2 mm
Maximum achievable thickness	4 mm
Consumption	approx. 1.5 kg/m ² per mm of thickness
Shelf life	If kept in its original packaging and properly stored in a dry, sheltered place, the product maintains its characteristics for 9 months

TECHNICAL DATA

PRE-MIXED POWDER

Particle size	0 – 0.6 mm
Powder density mass	1290 kg/m ³

FRESH MORTAR

Mixing ratio	2,5 : 1 COMPONENT A (25 kg powder) + COMPONENT B (10 kg liquid)
Density mass of the paste	1620 kg/m ³
Density mass of the liquid	1050 kg/m ³
Solid content in the emulsion	Approx. 45/50%
Compound resting time	5 min
Compound life time	2 h

RESISTANCE TO CHEMICAL PRODUCTS AFTER IMMERSION IN AGGRESSIVE SOLUTIONS FOR 24 HOURS AT 23°

Hydrochloric acid 10% aqueous solution	intact
Sodium hydroxide 10% aqueous solution	intact
Sodium hypochlorite 7% active chlorine content	intact
Acetone	slight softening
Dodecyl Benzen Sodium sulfate 0.25% aqueous solution	intact

SUPPLY

COMPONENT A	25 kg paper bag on 1400 kg flatbed
COMPONENT B	10 kg canisters on 56 pcs platform

SUBSTRATE PREPARATION

Substrates must be clean, cured, compact and sufficiently dry.

- Substrates that are not perfectly level must be smoothed at least 7 days before laying the sheath, verifying that the substrate is sufficiently cured
- Use on clean, resistant, seasoned, dry and compact substrates.
- In the vicinity of corners and edges, make suitable joint shells using cement-based mortars of adequate mechanical strength and apply specific elastic banding
- Before laying, remove any traces of release agents, paints, glazes or cement milks

APPLICATION

The treatment will be applied by means of a special smooth stainless steel trowel with a final thickness of not less than 2 mm up to a maximum of 4 mm to be made in several applications.

Will be inserted between the first and second coat special alkali-resistant fiberglass mesh with a weight not less than 155 gr and mesh 4x4 mm.

- Pour component B into appropriate container and gradually add component A by mixing latex and powder with drill mixer at low speed
- Waterproofing cementitious screeds, concrete elements, reinforced concrete or cement-based plasters will be done with suitable acrylic cementitious membrane such as Esin MR11 Sheathing from Esincaice srl.
- In the vicinity of corners and edges, make suitable joint shells using cement-based mortars of adequate mechanical strength and apply specific elastic banding
- Lay the product in 2 cross coats 24 hours apart realizing a final thickness of not less than 2 mm; higher thicknesses made in a single solution or overlaps of several layers made in a short time can reduce the filming capacity of the polymer in the deeper layers and thus compromise the seal of the coating
- Drown alkali-resistant fiberglass mesh with 4 x 5 mm. mesh weight 150 g between the 1st and 2nd coats; in particularly aggressive environments or critical operating conditions, it is advisable to use a polypropylene honeycomb mesh instead of a fiberglass mesh

WARNINGS

- Protect for at least 48 hours from rain, runoff, beating sun and frost; temperatures below +5°C and above +35°C in the 48 hours after installation can significantly alter the final mechanical performance and affect the waterproofing and durability of the membrane over time
- In the presence of capillary rise phenomena or if particularly damp substrates are present, avoid leaving the surface treated with Guaina Esin MR11 exposed to the action of the beating sun; the heat would lead to the development of pressurized water vapor with consequent spot lifting of the membrane