



RESINS FOR BUILDING

ISOLRESINE
E D I L I Z I E



RESINGUM

1/1 BIS



WATERPROOFING REINFORCED



ISOLRESINE

EDILIZIE

RESINGUM

www.isolresine.it



RESINGUM 1/1 BIS

CE EN 1504-2 SYSTEM OF WATERPROOFING COATING

RESINGUM is a composite system for the protection of concrete structures certified according to UNI EN 1504-2 standard , in accordance with REGULATION (EU) N. 305/ 2011.

It is made up of acrylic polyurethane resins solvent free in watery based, with interposed glass fabric of specific weight. It is used on horizontal, vertical and oblique external surfaces in order to create them waterproof. Its high elasticity guarantees an excellent resistance to stresses, due to dilations of both mechanical and thermal nature.



Designed to be left exposed, it is applied on terraces, solar panels and external walls.

- 1 SCREED
- 2 PRIMER
- 3 FABRIC WITH IMPREGNATING RESINGUM 1
- 4 RESINGUM 1 BIS - FIRST APPLICATION
- 5 RESINGUM 1 BIS - SECOND APPLICATION

RESINGUM 1-1BIS is supplied in single components ready to application by roller and/ or brush installation satisfying the application need of the site.

PACKAGE
RESINGUM 1 bucket of 4 and 14 liters, Resingum 1 BIS buckets of 4 and 14 litres, Fiberglass fabric MATT300 rolls.

The application on the joisted floors can also be carried out without the demolition of the existing support and in the presence of materials such as stoneware, marble grit bricks, ceramic, mix concrete, sheaths and corrugated sheets

APPLICATIONS: PREPARATION OF THE SUBFLOOR



CONCRETE (UNI EN 14891)

To clean carefully the support, removing any inconsistent part, or material that can cause a low adhesion using a single brush with abrasive disc. If it is very rough, it will be necessary to prepare the surface to be treated doing a shaving with RESINGUM BONDER product mixed with cement, before the application of ISOLFIX primer.



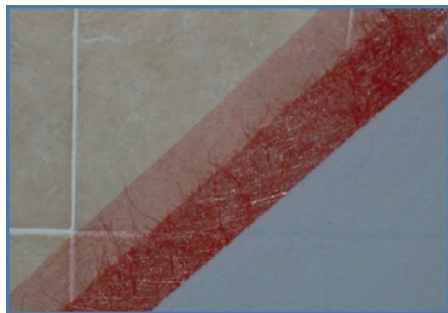
BITUMINOUS SHEATH

To verify the adhesion state of the sheath and to do any repairs by gas burner. In case the bituminous coat should be degraded we recommend the removal and its restoration. To apply a coat of ISOLFIX as a primer on an aluminium- coated sheath.



SLATED SHEATH

To verify the adhesion state of the slate sheath and to do any repairs by gas burner. In case the bituminous coat should be degraded we recommend the removal and its restoration. To remove excess slate flakes and to apply one coat of ISOLFIX primer. To do a shaving with RESINGUM BONDER mixed with cement using a rubber blade. After drying, to smooth with a single abrasive brush and to apply a primer coat consisting of 1 part of RESINGUM 1 and 4 parts of water.



STONEWARE, SINGLE FIRE, GLASS AND MATERIALS WITH LOW ABSORPTION

To verify and restore the possible non-adherence of tiles or the support material. To carry out a cleaning of the base and to apply a coat of ISOLFIX primer.



DILATION JOINTS

To make a careful cleaning of the joints with the possible removal of the old material. To grout the joints cleaned with RESINGUM GIUNTO product, taking care to create a central omega using on oval brush, slightly wet.



SLIM SUBFLOORS OR THERMAL INSULATING PANELS

To prepare the surfaces by laying a polyethylene cloth on the support taking care to turn up it on all structures in elevation (walls, pillars, masonry in general). After having verified the load- bearing structure, to create a traditional screed(sand and cement) with at least 8 cm thick, reinforced with mesh.

* SEE PRODUCT DESCRIPTION

INSTALLATION METHOD

LAYING MODE IN OPERATION

- 1 Preparation of subfloor;
- 2 Preparation of the primer: Resingum 1 plus water (ratio 1:4);
- 3 Primer application by roller and/ or brush;
- 4 Drying: about 2 hours with relative moisture 50 ± 5 %;



**1 part of RESINGUM 1
and 4 parts of water**

REINFORCEMENT APPLICATION : fibreglass fabric **MATT 300**

FLAT SURFACES (floors and walls):

rolling and laying of a layer of a tissue.

EDGES OR ANGLES (for exammple lapels or rain portals):

Cut of the tissue into wide bands of 25:30 cm for the lapels, or in hoc measurements for the corners and/ or edges;
Laying of a tissue layer of about 15:20 on the vertical surface and about 10 cm on the horizontal one.

Laying of a fibreglass fabric layer on a horizontal surface with an overlap of about 5 cm on the one previously laid for the lapel or corners/ edges.

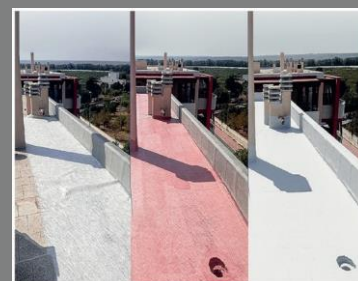


IMPREGNATION

1. Application of RESINGUM 1 layer by roller and/ or brush;
2. Drying: about 24 hours with relative moisture 50 ± 5 % 23 ± 2 °C;
3. Further layings of RESINGUM 1 one coat (only if the fabric weft is still porous)

FINISH

1. Laying of RESINGUM 1 BIS first layer by roller and/ or brush .
2. Drying: about 12 hours with relative humidity 50 ± 5 % 23 ± 2 °C;
2. Laying of RESINGUM 1 BIS second layer by roller and/ or brush.



CONSUMPTION PER SQUARE METRE

RESINGUM 1:(0,5 kg/m) 0,70 l/m - RESINGUM 1 BIS:(0,7 kg/m) 0,47 l/m - FIBREGLASS FABRIC MATT 300:(0,300 kg/m)

1.Consumption can vary depending on the absorption of the support.

PERFORMANCE CHARACTERISTICS

| Methods of testing | Performance characteristics | Requirement | Result |
|--------------------------------|--|---|--|
| | | UNI EN 1504-2 | Test ratio 542/L 28/11/17 |
| EN 1062-6 | Permeability to CO ₂ | $S_{D-CO_2} > 50 \text{ m}$ | $S_{D-CO_2} = 152.211 \text{ m}$ ($\mu_{CO_2} = 204860$) |
| EN ISO 7783-1 EN ISO 7783-2 | Permeability to water vapour | Class: I: ($S_D < 5 \text{ m}$) II: ($5 \text{ m} \leq S_D \leq 50 \text{ m}$) III: ($S_D > 50 \text{ m}$) | CLASS I permeable to vapour $S_D = 1.4014 \text{ m}$ ($\mu = 1717$) |
| EN 1062-3 | Capillary absorption and waterpermeability | $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ | $w = 0.011 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ |
| EN 1542 | Adherence force for direct traction | Average (N/mm ²) Flexible systems no traffic ≥ 0.8 with traffic ≥ 0.8 Rigid systems no traffic ≥ 1.0 with traffic ≥ 2.0 | after 7 days at $T = 23 \pm 2 \text{ }^\circ\text{C}$ $UR = 50 \pm 5\%$ 1.5 N/mm^2 |

SECURITY INDICATIONS

For complete information on the safety of components of the system and its correct use, refers to the relevant SAFETY DATA SHEETS. During the installation to wear gloves, protective glasses, masks and safety shoes, in addition to the standard for handling chemicals and mechanicals. In case of skin or eye contact, to wash immediately with plenty of water and to contact your doctor.

ITEM OF SPECIFICATIONS

Supply and installation of RESINGUM 1/1 BIS waterproofing system of ISOLRESINE EDILIZIE, conforming to EN 1504-2 standard, in operation at any height, composed of a mixture of acrylicpolyurethane resins fibrous reinforced with interposed glass fabric. The waterproofing system is realized by the processing of acrylicpolyurethane resins based on water and cement, with the impregnation of glass fabric, laid in place by roller or brush on horizontal surfaces, vertical and inclined smooth or rustic, with consumptions not less than 0.5 kg/ m (RESINGUM 1), 0,33 kg/m (cement) , 0.7 kg/m (RESINGUM 1 BIS) and 0,3 kg /m (MATT 300 fibre glass). The application must be carried out on a dry and clean support and prepared according to the specifications of the data sheet to be calculated separately.

GENERAL ADVICE

Before the application of RESINGUM 1-1BIS system is important to make sure that the subfloor is dry and compact and unpolluted by oil, fats or other inconsistent parts, that can cause detachment and / or bubble formation compromising the waterproofing's success. Also to evaluate carefully the total drying of the restorations or the total plaster remakes to avoid swelling due to the moisture of the support. It is recommended to prepare moisture exhalers on water-impregnated screeds(at least one in 15/ 20 m²).

Do not apply the product in case of rain. At the installation stage to consider that a high moisture content ($> 75\% \text{ UR}$) slows the drying of the product and that rain, ice or snow can drain the product if it is not perfectly dry.

The indications given in this text, even if dictated and derived from our research, analysis and experience , are to be considered only indicative. It disclaims any liability for improper use of the product.

CE

ISOLRESINE EDILIZIE
C/da Votano sn, Capurso (BA)

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EN 1504-2

Coating for the surface protection of concrete by:

- protection against the risk of penetration;
- control of moisture;
- increase in resistivity.

| | |
|-----------------------------------|--|
| Permeability to water vapour: | Class I |
| Permeability to liquid water: | $w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ |
| Permeability to CO ₂ : | $\text{SD}_{\text{CO}_2} > 50 \text{ m}$ |
| Direct traction adherence: | $> 0.8 \text{ N}/\text{mm}^2$ |
| Reaction to fire: | E |
| Dangerous substances: | see SDS |



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