

# ISOVIT REDE 160/343

GLASS FIBRE MESH FOR COATING REINFORCEMENT

## 1. DESCRIPTION

*ISOVIT REDE 160* and *ISOVIT REDE 343* meshes are made of 100% glass fibre yarn, with ISO 9001 certification. Their manufacturing process, with double twist yarns, makes it possible to considerably increase *ISOVIT REDE 160* and *ISOVIT REDE 343* mesh tensile strength, a key factor in reinforcing coatings.

The chemical treatment that is applied consists of an induction of resin by which the mesh is effectively protected against alkalis attack of the various coatings, such as concrete, synthetic binder coatings or Portland cement renderings.

## 2. FIELD OF USE

*ISOVIT REDE 160* and *ISOVIT REDE 343* glass fibre meshes are used to improve crack resistance of wall coatings, both for being a reinforcement, leading the coating to operate as a composite, and for its ability to redistribute strengths, reducing the effect of strength concentration in any possible crack of the base (bridge effect).

## 3. PRODUCT CHARACTERISTICS

Technical Characteristics	ISOVIT REDE 160	ISOVIT REDE 343
Yarn	100% glass fibre	100% glass fibre
Rolls	1 m x 50 ml	1 m x 25 ml
Mesh aperture size	5,0 mm x 4,1 mm (± 5%)	6,0 mm x 6,0 mm (± 5%)
Total weight of the fabric	160 g/m <sup>2</sup> (± 5%)	330 g/m <sup>2</sup> (± 5%)
Mesh tensile strength after ageing	≥ 20 N/mm	≥ 38 N/mm
Relative residual strength in the receiving conditions (after ageing)	≥ 61%	≥ 67%
Chemical resistance	Good resistance to alkalis according to DH	Good resistance to alkalis according to DH

## 4. APPLICATION

*ISOVIT REDE 160* and *ISOVIT REDE 343* meshes should always be incorporated in a coating layer, that is, applying a layer of mortar on the surface, laying the mesh so as to be slightly embedded and carry on to the second layer, completely covering the mesh. When applying the mesh, lateral overlap should be ensured between 1 m strips of at least 10 cm.

### a) Thermal insulation

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Due to their mechanical resistance, *ISOVIT REDE 160* and *ISOVIT REDE 343* meshes are especially recommended for *ISOVIT* and *ISODUR* external thermal insulation systems giving them greater strength and stability, avoiding the formation of cracks due to temperature variations or deviation of the insulating panels.

Due to its higher density, *ISOVIT REDE 343* mesh is especially recommended for reinforcement in accessibility areas or areas with greater need for resistance to impacts.

### b) Waterproofing

In waterproofing systems subjected to moderate stress, *ISOVIT REDE 160* mesh increases the mechanical performance of the solutions. It may, for example, be incorporated into a layer of *HIDROSTOP RESIST* or *HIDROSTOP FLEX*.

### c) Thin coatings

*ISOVIT REDE 160* also provides a good performance as reinforcement for thin coatings (thicknesses of 2 to 5 mm), namely, in finishing layers applied over existing bases that may be cracked, or, in general, when a wall without surface cracking has to be guaranteed.

## 5. PACKAGING AND VALIDITY

### Packaging

*ISOVIT REDE 160* -1 m x 50 ml rolls.

*ISOVIT REDE 343* -1 m x 25 ml rolls.

### Storage

*ISOVIT REDE* should be stored in a dry place, protected from sunlight and placed vertically.

## 6. HEALTH AND SAFETY

- Handling this product does not require special care. However, it may cause irritation to more sensitive skins. In such cases, rinse abundantly with cold water and soap.

*Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice, please contact our Technical Services.*

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