



UNI EN ISO 9001:2008  
Quality System Certified Company



TECHNICAL DATA SHEET  
PRODUCT

**ISO Gen 42**

**CEMENT BASED ELASTIC WATERPROOFING**

**Bi-component elastic cement mortar for protecting and proofing concrete, mortar beds, swimming pool foundation, balconies, roofs, terraces, etc.**

ISO Gen 42 is used for the execution of protecting and proofing coverings of high flexibility on structures of concrete, and other construction material, subject to micro-cracking phenomena.

- Protection of plasters or concrete having cracking caused by the shrinkage
- Protection against water penetration
- Protection against atmospheric agents
- Sealing of slits and capillarity existing on the foundation
- Waterproofing of bathrooms, showers, balconies, terraces, swimming pools before cladding laying
- Waterproofing of cement surfaces, plasters, plasterboards, cement blocks
- Waterproofing of walls in contact with the earth

ISO Gen 42 consists of two components, already proportioned, needing only to be mixed without adding water or whatsoever other component.

**PRODUCTS FEATURES**

	<b>Component A</b>	<b>Component B</b>
<b>PHYSICAL STATE AND APPEARANCE</b>	powder	liquid
<b>COLOUR</b>	grey	whitish
<b>VOLUME MASS</b>	1.4 g/m <sup>3</sup>	1.1 g/m <sup>3</sup>
<b>SHELF-LIFE (INTO THE ORIGINAL CONTAINERS AND CLOSED ROOM)</b>	12 months	12 months
<b>TEMPERATURE RESISTANCE</b>	<u>CANNOT STAND THE HUMIDITY</u>	<u>CANNOT STAND THE FROST</u>
<b>MIXTURE RATIO COMPONENT A : COMPONENT B = 2,6 : 1</b>	2,6 parts by weight	1 part by weight
<b>PACKAGING</b>	bag of 25 kg.	can of 9,5 kg.
<b>DANGER CLASSIFICATION ACCORDING TO DIRECTIVE 1999/45/EC</b>	irritant before using consult the information shown on packaging and on Material Safety Data Sheet	none
<b>CUSTOMS TARIFF</b>	3824.5090	

**CHARACTERISTICS OF THE MIXTURE**

<b>COLOUR OF THE MIXTURE</b>	grey
<b>CONSISTENCY OF THE MIXTURE</b>	plastic, knife grade
<b>APPLICATION BY</b>	flat knife or roller or sprayer
<b>USE/APPLICATION TEMPERATURE</b>	between +5°C and +35°C (+41°F and + 95°F)
<b>APPLICATION OF THE MIXTURE WITHIN</b>	45 to 60 minutes after mixing

**PREPARING THE SUPPORT**

**Concrete Structure.** The foundations must be compact, solid, clean and free from any oily or greasy substance that can compromise the adhesion. So effect a careful removal of the dust and of all the friable, parts or not solidly grounded, by jet of water or manually.

Surfaces / foundations to be treated must be preventively wet.

**Balconies, terraces, swimming pools, bathrooms.** The mortar bed must be properly matured and compact and the cracking caused by settling or shrinkage must be appropriately sealed.

**Plaster.** The cement plaster, after the needed maturation, must be free from dust or paints of any kind, must be resistant and well anchored to the support (wall or floor).



### PREPARING THE MIXTURE/MORTAR

Pour the "component B" (liquid) in a clean container of adequate capacity to contain the whole mixture (A+B) and then pour slowly, under mixing, the powder content of the bag of the "component A".

Mix the two components by means of a drill/device, working at low rpm, equipped by suitable mixing tool till to obtain a homogeneous mortar/mass without lumps. Avoid the stagnation of not mixed powder on the wall or on the bottom of the container.

Manual mixing is not suggested to avoid the mixture englobes excess of air.

*Do not add cement or water or other substance to ISOGEN 42*

### APPLYING THE MIXTURE/MORTAR

*Damp with water the absorbing surfaces, before applying the mixture.*

*Apply the mixture within 45 to 60 minutes after mixing.*

**Manual Application.** It is suggested to apply a very thin layer of ISOGEN 42 on the prepared / ready surface by using a flat knife and then on this fresh layer apply the mortar by flat knife, or roller, to obtain a thickness of not less than 2 mm.

Higher thicknesses need further application(s) after the previous layer is hardened on surface (4 to 5 hours).

**Mechanical or Spraying Application.** Apply by a plastering machine equipped with a nozzle for plaster application till to obtain a thickness of not less than 2 mm.

Higher thicknesses need further application(s) after the previous layer is hardened on surface (4 to 5 hours).

*In case of support/foundation particularly under stress or areas with micro-slits or in case of proofing of terraces, balconies, tanks, it is always suggested to insert into the fresh first layer of ISOGEN 42 a **fibreglass net** as reinforcement. After the net is laid, smooth/finish the surface by flat knife and apply a second layer of ISOGEN 42 once the first one is hardened on surface (4 to 5 hours).*

### MATURATION

After the application it is suggested to wait at least 5 (five) days of maturation before laying the cladding/floor or before the application of eventual paints.

### PACKAGING

*Component A:* bag of 25 kg. net;

*Component B:* plastic can of 9,5 kg. net

### STORAGE AND STABILITY

When stored in dry room, sheltered from direct sunrays, kept into the original sealed packing, at temperature not lower than 5°C (41°F) and not higher than 35°C (95°F) the product has a 12 months stability

### IMPORTANT!

- Before using, in case of hot, dry and ventilated climatic conditions do not expose the product to the sun; moreover protect the surface treated with ISOGEN 42 by means of sheets to avoid an excessive and quick evaporation.
- During the first 24 hours after the application, protect the surface from the rain and from casual or fortuitous contact with water.
- The product can be painted by paints based on acrylic resins dispersed in water.

### SAFETY

PRODUCT FOR PROFESSIONAL USE ONLY.

The *component A* contains cement and is highly alkaline. The contact with sweating or other liquid or corporeal fluid can be cause of irritation or also allergic reaction to persons that are particularly predisposed).

So it is recommended to always wear gloves and safety goggles and to keep the product out from the reach of the children.

For more information about safety consult the Material Safety Data Sheet.

### TEST

Testing in a small area is recommended before application to determine compatibility of the product with the material to be treated, consumption, drying time and the protection degree.

**LIMITATION OF LIABILITY** The data provided derive from published information or from our own laboratory tests. The information provided here must be considered as a guideline and not as any form of performance guarantee. Since the application of the product is beyond the control of the manufacturer or supplier our liability for defective products, when verified, is limited to refund of the purchase price.

**A PRELIMINARY TEST IN A SMALL, HIDDEN, AREA IS RECOMMENDED BEFORE THE APPLICATION**