

ELASTIC MORTAR FOR SEALING JOINTS SUBJECT TO MOVEMENT IN CONCRETE, PREFABRICATED AND CERAMIC ELEMENTS



Description

MAXJOINT® Elastic® is a two component product. Component A is a liquid based on special synthetic resins. Component B, supplied in powder form, is a mortar based on a mixture of cements, additives and special aggregates. When both components are mixed, an elastomeric product with high bond strength is achieved, suitable for sealing joints and cracks in concrete, pre cast elements, mortars and bricks.

Application Fields

- Sealing expansion joints with an in service joint movement up to 15%.
- Joints in permanent immersion in pipelines, water reservoirs, water treatment plants, etc.
- Joints of concrete prefabricated elements and ceramic in facades and building construction
- Sealing of active cracks in concrete and masonry.
- Pointing mortar on substrates subject to movement.

Advantages

- Allows movement capability of joint up to 15%.
- Very high weather resistant and durability. No maintenance required.
- Excellent adhesion on damp surfaces. No bonding agent needed.
- Non slump on vertical joints.
- Suitable for joints in permanent contact with water
- Easy to apply and finish.
- Non toxic and non flammable, environmentally friendly.
- Can be painted once cured with the desired colour

Application Instructions

Joint Size

Joint width must not be higher than 30 mm. Sealing depth should be at least half of joint width. Use polyethylene foam joint backing rod MAXCEL (Technical Bulletin no 48), with a diameter 25 % greater than the joint width, in order to avoid stress of the bottom on MAXJOINT® ELASTIC.

Substrate preparation

The surface to be sealed must be solid and clean, free of all traces of paint, efflorescence, loose particles, grease, form stripping oils, dust, gypsum plaster, etc. Before applying MAXJOINT® ELASTIC, dampen joint edge removing free standing water.

Mix preparation

MAXJOINT® ELASTIC is supplied as two pre weighed components. Pour the resin, component A, into a clean container and add the powder gradually, component B, while mixing with a low speed mixing drill (400 600 rpm), until a homogeneous mixture free of lumps is achieved. Avoid an excessive mixing time and do not modify the proportions supplied between both components. Leave the mix to rest 2 minutes. Depending on relative humidity and temperature, pot life can vary between 30 60 minutes approximately. After this time, re mix to keep its workability but do not add water.



Preparation and cleaning of joint



Placement of **MAXCEL**

Application

To improve the adhesion on surface, a primer of component A applied by brush on the joint edge is recommended. While the primer coat is still wet to touch, apply MAXJOINT® ELASTIC into the joint by trowel, caulking gun or putty knife. During the application, push against the bottom and edge joint in order to avoid any remaining internal air bubble. For smoothing the surface, soaped water can be used immediately after application.

Application Conditions

Do not apply MAXJOINT® ELASTIC below 5°C or if lower temperatures are forecast within 24 h after application. Do not apply onto frozen or frosted surfaces. Prevent fast drying during the first hours of curing. Protect against strong wind or direct sunlight at high temperatures. Do not apply if rain is expected within 6 8 hours after application.

Curing

Curing time varies depending on temperature and relative humidity, as well on the joint size. At 20°C and 50 % R. H_ a 10 mm width application of MAXJOINT® ELASTIC can be coated by MAXSEAL® FLEX (Technical Bulletin n° 29), MAXELASTIC® (Technical Bulletin n° 8) or MAXSHEEN® ELASTIC, (Technical Bulletin n° 142) after a curing time of 7 days. When subject to water immersion, allow a curing time for 3 weeks, in such weather conditions. If application is done below 10°C, high relative humidity or not ventilated areas, longer curing time is required.

Cleaning

Tools must be cleaned with water immediately after application. Once the material hardens, it can only be removed by mechanical methods.

PACKAGING

MAXJOINT® ELASTIC is supplied in 10 kg pre weighed sets (5 kg liquid component A and 5 kg powder component B). It is available in grey colour.

STORAGE

Twelve months in its original unopened sets, in a dry covered place, protected from frost, above 5°C.

CONSUMPTION

MAXJOINT® ELASTIC fills approximately 0,790 litres with 1 kg product. The following data is an approximate guideline depending on the joint size:

APPROXIMATE CONSUMPTION

| Joint Size (mm) | kg/ Lineal metre | lineal metre per 10 kg set |
|-----------------|------------------|----------------------------|
| 10x5 | 0,065 | 153 |
| 15x7.5 | 0,140 | 71 |
| 20x10 | 0,250 | 40 |
| 25x12.5 | 0.400 | 25 |
| 30x15 | 0.570 | 17 |

Important Instructions

- Do not add cement, water or aggregates to MAXJOINT® ELASTIC to achieve higher coverage.
- Do not apply MAXJOINT® ELASTIC below 5°C or if lower temperatures are forecast within 24 hours after application.
- Do not apply onto frozen and frosted surfaces.
- For further information, please consult our Technical Department.



Application of **MAXJOINT® ELASTIC**



View of the finish joint. It can be painted with the desired colour.

Technical Data

| | |
|------------------------------------|---------------------------------|
| External appearance component A : | Milky like liquid |
| External appearance component B : | Grey Powder |
| Density liquid component (A) : | 1,0 g/CM ³ + 0,05 |
| Density powder component (B) : | 0,9 g/CM ³ + 0,05 |
| Maximum aggregate size component B | 0,4 mm |
| Mixture proportion A + B | 1:1 by weight |
| Density fresh mixture A+ B | 1,26 g/CM ³ + 0,05 |
| Density cured mixture A + B | 1, 14 g/CM ³ + 0,05. |
| Pot life A + B | 30-60 min |
| Optimum application temperature | 5 - 30 OC |
| Joint unhitching | None |
| Inservice joint movement | 15% |
| Shore A Hardness, ISO 868 | 37 |

| | |
|-------------------------------|----------|
| Elastic modulus 60%, EN 28339 | 0,38 MPa |
| Tensile strength, EN 28339 | 0,38 MPa |
| Elongation at break, EN 28339 | 60% |
| Elastic recovery, EN 27-389 | 78% |

Safety and Health Component A: neither toxic nor flammable. It is not classified as dangerous material for transportation. Component B: as all cement based product, it is abrasive and protective rubber gloves and safety goggles must be used to prepare the mix and apply. If any of the components or mixture gets in contact with eyes or skin, rinse with clean water, but do not rub. If irritation continues, consult a doctor. There is available MAXJOINT® ELASTIC Safety Data Sheet by request. Disposal of the product and its empty containers must be used according to official regulations. The proper disposal of the product is the responsibility of the user.

GUARANTEE The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. DRIZORO® reserves the right to introduce changes without prior price. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.

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