



MAXJOINT[®] ELASTIC

ELASTIC MORTAR FOR SEALING JOINTS AND CRACKS SUBJECT TO MOVEMENT IN CONCRETE AND MASONRY

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 of expansion joints in movement between concrete pre-cast structures.
- Joints in permanent immersion in pipelines, water reservoirs, water treatment plants, etc.
- Vertical joints in façades and building construction.
- Restoration of active cracks in concrete and masonry.
- Pointing mortar on substrates subject to movement.

ADVANTAGES

- Withstands a joint movement up to 15%.
- Very high weather resistant and durability. Maintenance-free.
- Excellent adhesion on damp surfaces.
- No bonding agent needed.
- Non-slump on vertical joints.

- Suitable for joints in permanent contact with water.
- Drinking water safe.
- Easy to apply and finish.
- Non-toxic and non-flammable. Environmentally friendly.
- Can be painted once cured.

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**.

Surface 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.

Mixing

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 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. If needed re-mix to keep its workability but do not add water.

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 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 24h 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**, **MAXELASTIC®** or **MAXSHEEN® ELASTIC**, 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. Consult our Technical Department.

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 pre-weigh two-component sets of 4 kg and 10 kg (2 kg Component A-liquid with 2 kg Component B-powder, and 5 kg Component A-liquid with 5 kg Component B-powder respectively).

MAXJOINT® ELASTIC is available in standard grey colour. Under special request also available in ivory, blue, tile, red, jade green, brown and black 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 lts with 1 kg product. The following data is an approximate guideline depending on the joint size:

Joint size (mm)	Kg. per lineal metre	Consumption estimate (Lineal metre per 10 kg)
10 x 5	0,065	153
15 x 7,5	0,140	71
20 x 10	0,250	40
25 x 12,5	0,400	25
30 x 15	0,570	17

IMPORTANT INDICATIONS

- Do not add cement, water or aggregates on **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.

SAFETY AND HEALTH

Component A: non toxic or 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 packaging must be made by the final user and according to existing national regulations.

TECHNICAL DATA

Characteristics of the product	
External appearance component A	Milky white liquid
External appearance component B	Grey powder
Density component A (g/cm ³)	1,0 ± 0,05
Density component B (g/cm ³)	0,9 ± 0,05
Maximum aggregate size component B (mm)	0,4
Mixture proportion A : B (weigh)	1:1
Conditions of application and curing	
Density fresh mixture A + B (g/cm ³)	1,26 ± 0,05
Density cured mixture A + B (g/cm ³)	1,14 ± 0,05
Optimum application temperature (°C)	5 - 30
Pot life A + B (minutes)	30 – 60
Joint slump	None
Appropriate for contact with drinking water, RD 140/2003 Directive 2002/72/CE	Approved
Characteristics of cured product	
In-service joint movement, (%)	15%
Shore A hardness, ISO 868	37
Elastic modulus 60 % (MPa) EN 28339	0,38
Tensile strength (MPa) EN 28339	0,38
Elongation at break (%) EN 28339	60
Elastic recovery (%) EN 27389	78

GARANTIEE

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