



# MAXJOINT® ELASTIC EXPRESS

## ELASTIC CEMENT MORTAR FOR URGENT SEALING OF JOINTS AND CRACKS IN WATER RESERVOIRS AND CONCRETE PAVEMENTS

### DESCRIPTION

**MAXJOINT® ELASTIC EXPRESS** is a two-component product composed of special synthetic resins in water dispersion and cements, additives and special aggregates. When both components are mixed, an elastomeric quick setting-time sealant is achieved, suitable for urgent sealing of joints and cracks. Allows opening to pedestrian traffic in 8 hours and water immersion in 3 days.

### APPLICATION FIELDS

- Urgent repairs and sealing of construction joints subject to water immersion in pipelines, water reservoirs, water treatment plants, swimming-pools, etc.
- Sealing of joints between pre-cast concrete elements in pipelines, façade panels, tunnel lining segments, etc.
- Vertical joints in façades, architectural curtainwalls panels, balconies, terraces, etc.
- Fast sealing and restoration of active cracks, skimmers, penetrating pipes, lights, drainage tubes, critical points, etc under permanent water immersion.
- Repair of joints and cracks on concrete floors, industrial pavements, parking, garages, etc exposed to wheel traffic and with urgent putting-into service.

### ADVANTAGES

- Withstands joint movement up to 15%.
- Excellent weathering resistance and UV-rays resistance, without yellowing process. Maintenance-free.
- Suitable to be applied directly on wet concrete and without primers. Excellent adhesion on concrete, mortar, ceramic, bricks, etc.

- Resistant to marine water, waste water, soil water, etc with presence of salts, sulphates, chlorides, etc.
- Very good thixotropy, suitable for vertical joints.
- Excellent abrasion resistant for wheel traffic, forklifts, etc in industrial pavements, parkings, etc.
- Easy to apply and finish.
- Non-toxic, solvent-free, non-flammable, odour-free, suitable joint sealant solution for poor ventilated tanks. Environmental friendly.
- Can be painted once cured.
  - **Will take negative as well as positive pressure when cured.**

### APPLICATION INSTRUCTIONS

#### Joint size

Joint width must not be less than 8 mm and not higher than 30 mm. As a rule, the sealed depth will be approximately half of joint width, except when width is less than 15 mm, in which case depth and width will be the same.

Use polyethylene foam joint backing rod **MAXCEL®**, with a diameter 25% greater than the joint width, in order to avoid stress of the bottom on **MAXJOINT® ELASTIC EXPRESS**. Similarly, the divider avoids that non-desirables stresses could appear by adherence on the backing rod.

Before applying **MAXJOINT® ELASTIC EXPRESS**, dampen the surface with clean water, avoiding the formation of puddles, and then start the application once the surface acquires a matte appearance, if it is dry, proceed to saturate it with water again.

#### Surface preparation

The joint surfaces must be solid and clean, free of all traces of paint, efflorescence, loose particles, grease, form-stripping oils, dust, gypsum plaster or any coating which could affect the adhesion. If

it could be necessary, a mechanical cleaning with air jet or with solvents should be carried out to remove greases and oils.

## Mixing

**MAXJOINT® ELASTIC EXPRESS** 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) fitted with a disc mixer, for about 2-3 minutes until achieving a homogeneous mixture free of lumps and thixotropic consistent. Allow the mixture to rest for 5 minutes and remix briefly before applying.

Depending on relative humidity and temperature, pot life can vary between 10-15 minutes approximately. If needed, re-mix again to keep its workability but do not add more water.

## Application

While the surface is still wet, apply **MAXJOINT® ELASTIC EXPRESS** 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. Wide joints will be executed in three phases, applying firstly the product over both joint edges and finally, a cordon in the middle.

For smoothing the surface, soaped water can be used immediately after application.

## Application conditions

Do not apply when rain, water contact, condensation or dew is expected within 24 h after application.

Optimum application temperature range is from 10°C to 30°C. Do not apply below 5°C or if lower temperatures are forecast within 24h after application. Do not apply onto frozen or frosted surfaces.

At high temperature with strong wind, wet abundantly the substrate with water. Avoid direct sunlight at very high temperature (>30°C) with strong in order to avoid a quick drying, keeping its moisture curing at least the first 24 hours by protecting with wet burlaps and plastic sheets. Do not wet or apply curing agents.

## Curing

Allow a curing time of 8 hours for opening to pedestrian traffic, 24 hours for wheel traffic and 3 days for permanent water immersion (20°C and 50% R.H.) Lower temperatures and/or higher R.H. increase curing time.

**MAXJOINT® ELASTIC EXPRESS** can be covered with **MAXSEAL® FLEX** or **MAXSHEEN® ELASTIC**, after a curing time of 72 hours.

Once **MAXJOINT® ELASTIC EXPRESS** is cured and before putting into permanent water contact, wash surface with water jet.

## Cleaning

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

## CONSUMPTION

Estimated consumption for **MAXJOINT® ELASTIC EXPRESS** depends on joint size:

$$\text{Consumption (kg of sealant/lineal metre)} = (1/790) * \text{Width joint (mm)} * \text{Depth joint (mm)}$$

This way, for a joint size of 10x10 mm, the estimated consumption is 0,125 kg of sealant per lineal metre of joint. 1 kg of **MAXJOINT® ELASTIC EXPRESS** fills a volume of 0,790 litres.

The coverage in lineal metres of joint for a 10 kg set of **MAXJOINT® ELASTIC EXPRESS** can be calculated through:

$$\text{Coverage (lineal metre of joint/set)} = 7.900 * 1/\text{Width joint (mm)} * 1/\text{Depth joint (mm)}$$

Joint size: Width x Depth (mm)	Consumption* (kg/lineal m)	Coverage (lineal m/Set)
10 x 10	0,125	79
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

\* These figures are for guidance and may vary depending on porosity, texture and conditions for substrate, and application method. Perform a preliminary test on-site to ascertain the total consumption exactly under jobsite conditions.

## IMPORTANT INDICATIONS

- Do not use in joints with expected movement capability higher than 15%.
- Do not add cement, water or aggregates to achieve higher coverage.
- Use the recommended mixing ratios.
- To retain its workability, remix the fresh mortar but never add more water. Mix and use. Do not mix more material that can be used in 15 minutes.
- Provide the width:depth joint design recommended.

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- For joints wider than 30 mm use **MAXFLEX® XJS**.
- For further information, please consult our Technical Department.

## PACKAGING

**MAXJOINT® ELASTIC EXPRESS** is supplied in pre-weigh two-component set of 10 kg (5 kg Component A-liquid with 5 kg Component B-powder respectively). Available in grey colour.

## STORAGE

24 months in its original unopened sets, in a dry covered place, protected from frost and direct sunlight, keeping at temperatures above 5°C.

## TECHNICAL DATA

Product characteristics	
General appearance and colour for component A	Milky white liquid
General appearance and colour for component B	Grey powder
Density for component A, (g/cm <sup>3</sup> )	1,00 ± 0,1
Density for component B, (g/cm <sup>3</sup> )	0,90 ± 0,10
Maximum aggregate size for component B, (mm)	0,5
Mixing ratio A:B, (by weight)	1:1
Density for fresh mortar A+B, (g/cm <sup>3</sup> )	1,25 ± 0,10
Application and curing conditions	
Density for cured product A+B, (g/cm <sup>3</sup> )	1,15 ± 0,10
Minimum application temperature, (°C)	> 5
Pot life at 20 °C & 50 % R.H., (min)	10 -15
Initial / final setting time at 20 °C & 50 % R.H., (min)	25-30 / 50-60
Curing time at 20 °C & 50 % R.H., (h)	
- Pedestrian traffic	8
- Car traffic	24
- Coating with <b>MAXSEAL®FLEX, MAXSHEEN® ELASTIC</b>	72
- Permanent water immersion or flooding test	72

## SAFETY AND HEALTH

**MAXJOINT® ELASTIC EXPRESS** is a non-toxic product but it is abrasive in its composition (Component B). Avoid direct contact with skin and eyes as well as the inhalation of dust. Use rubber gloves and safety goggles when handling, mixing and applying the product. In case of contact with skin, wash affected area with soap and water. In case of contact with eyes, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXJOINT® ELASTIC EXPRESS**.

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