WHERE TO USE
- Monolithic repair work on cracked load-bearing structures after being overloaded or to repair damage due to impact or seismic activity.
- Bonding and structural strengthening by low pressure injection.
- Anchoring reinforcement steel.

Application examples
- Structural repairs to cracked beams, pillars and floor slabs by low pressure injection.
- Restoring the waterproofing capacity of cracked basins, storage tanks or water channels.
- Repairs to façades, coatings and detached architectural features by injection.
- Structural consolidation and repairs in road works and civil and industrial structures and elements with cracks.
- Anchoring machinery, noise-abatement barriers, reinforcement steel in construction joints, etc.

TECHNICAL CHARACTERISTICS
Epojet SE is a solvent-free epoxy adhesive made up of two pre-dosed components (component A resin and component B catalyst) which must be mixed together prior to use.

After mixing, the consistency of Epojet SE is that of a low viscosity liquid which penetrates easily into microcracks.

Epojet SE hardens without shrinking, including on slightly damp substrates, and is impermeable to chemical agents in the atmosphere.

Epojet SE has excellent dielectric properties and high mechanical strength. It also forms a perfect bond to concrete and steel.

RECOMMENDATIONS
- Do not use Epojet SE if the temperature is lower than +10°C.
- Do not use Epojet SE for injecting into cracks subject to water leaks under pressure.
- Do not apply Epojet SE on dusty, crumbly or flimsy substrates.
- Do not use Epojet SE for sealing expansion joints.

APPLICATION PROCEDURE
Preparation of the substrate
Before injecting the product or using it to anchor elements, concrete surfaces must be perfectly clean and sound.
Remove all crumbly and detached parts and all traces of dust, cement laitance and paint by brushing or sandblasting.
Concrete impregnated with oil or grease must be completely demolished.

Repairs to cracked concrete by injection
Drill a series of 8-9 mm holes along the sides of the cracks at an angle so they go through the cracks.
Carefully clean the area with compressed air to remove all traces of dust deposits formed during the drilling operation. Insert special injection tubes into the drilled holes and seal the elements to be repaired with Adesilex PG1 or Adesilex PG2.
If it is not possible to drill holes because the cracks are too small or too widely distributed, use injectors with flat ends fixed in place over the cracks with expansion screws or with Adesilex PG1 or Adesilex PG2.

Wait until the Adesilex PG1 or Adesilex PG2 have hardened (at least 12 hours) and inject compressed air to make sure the circuit is perfectly free.

**Anchoring reinforcement steel**

Wet-drill a hole using a diamond-tipped bit and then thoroughly wash the hole to eliminate all traces of cement laitance until only clean water flows out. Brush the hole and repeat the washing cycle. Before pouring Epojet SE into the hole, eliminate all excess water with compressed air. Insert the steel rod into the dry hole and pour in the Epojet SE until the hole is completely filled or pour in the resin to partially fill the hole, insert the steel rod and then pour more resin into the hole until it is completely filled.

**Preparation of the product**

The two components which make up Epojet SE must be blended together. Pour component B into component A and mix with a low-speed drill with a mixing attachment until the resin is completely blended, trying to avoid air being dragged to entrapped.

Do not use partial quantities of the components to avoid making dosage errors when mixing, otherwise Epojet SE may not harden completely. If partial quantities are required, use precision electronic scales to weigh out the components.

**Application of the product**

Inject the Epojet SE immediately after mixing with a suitable pump starting from the lowest tube until the resin comes out of the adjacent injector. Seal the tube used to inject the product and then inject Epojet SE through the next tube until the crack is completely sealed. Horizontal cracks and anchoring holes may be sealed or filled by simply pouring in the Epojet SE.

Epojet SE must be applied within 40 minutes of being prepared at a temperature of +23°C.

Avoid using Epojet SE if the outside temperature is lower than +10°C.

**Precautions to be taken during and after application**

Epojet SE may irritate the skin. We recommend the use of protective gloves and goggles when preparing and applying the product. If the product is applied in closed or poorly ventilated areas, make sure there is sufficient air circulation.

If the product comes into contact with the eyes, wash well with plenty of clean water and seek medical attention.

**Cleaning**

Tools used to prepare and inject Epojet SE must be cleaned immediately after use with solvent (ethanol, toluene, etc.) before the product hardens.

**CONSUMPTION**

1.1 kg/dm³ of cavities to be filled.

**PACKAGING**

Available in 4 kg kits (3.2 kg drums and 0.8 kg canisters).

**STORAGE**

Epojet SE must be stored in its original packaging at a temperature of at least +5°C.

**SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

Epojet SE component A may irritate if it comes into direct contact with the skin or eyes. Component B contains a highly caustic, harmful substance. If the product comes into repeated or continuous contact it may cause rashes. We recommend using protective gloves and goggles when handling and using the product. If it comes into contact with the skin, wash with plenty of soap and water, and if a rash appears, seek medical attention. If it comes into contact with the eyes, wash well with clean running water and seek medical attention. Use only in well ventilated areas.

Epojet SE is hazardous for aquatic life: do not dispose of the product in the environment.

Epojet SE is hazardous for aquatic life: do not dispose of the product in the environment.

**PRODUCT FOR PROFESSIONAL USE.**

**WARNING**

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com.
## TECHNICAL DATA (typical values)

### PRODUCT IDENTIFICATION

<table>
<thead>
<tr>
<th></th>
<th>component A</th>
<th>component B</th>
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</thead>
<tbody>
<tr>
<td><strong>Consistency:</strong></td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour:</strong></td>
<td>transparent yellow</td>
<td>transparent yellow</td>
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<tr>
<td><strong>Density (g/cm³):</strong></td>
<td>1.11</td>
<td>1.06</td>
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<tr>
<td><strong>Brookfield Viscosity (mPa·s):</strong></td>
<td>930 (rotor 2 - 20 revs)</td>
<td>60 (rotor 1 - 50 revs)</td>
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<tr>
<td><strong>Hazard classification according to EC 1999/45:</strong></td>
<td>irritant, hazardous corrosive, hazardous for the environment for the environment</td>
<td></td>
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<tr>
<td>Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packaging and Safety Data Sheet</td>
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### APPLICATION DATA OF PRODUCT (at +23°C – 50% R.H.)

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<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td><strong>Mixing ratio:</strong></td>
<td>component A : component B = 4 : 1</td>
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<tr>
<td><strong>Consistency of mix:</strong></td>
<td>fluid liquid</td>
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<tr>
<td><strong>Density of mix (kg/m³):</strong></td>
<td>1100</td>
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<tr>
<td><strong>Brookfield Viscosity (mPa·s):</strong></td>
<td>760 (rotor 2 - 20 revs)</td>
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<tr>
<td><strong>Workability time (for 250 g):</strong></td>
<td>180’</td>
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<tr>
<td><strong>Application temperature range:</strong></td>
<td>from +10°C to +35°C</td>
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<tr>
<td><strong>Final hardening time:</strong></td>
<td>7 days</td>
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### FINAL PERFORMANCE (after 7 days at +23°C)

<p>| | |</p>
<table>
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<tr>
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<tbody>
<tr>
<td><strong>Bond strength to concrete (N/mm²):</strong></td>
<td>&gt; 3 (failure of substrate)</td>
</tr>
<tr>
<td><strong>Compressive strength (ASTM D 695) (N/mm²):</strong></td>
<td>60</td>
</tr>
<tr>
<td><strong>Compressive modulus of elasticity (ASTM D 695) (N/mm²):</strong></td>
<td>1100</td>
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