Ultracrete Joint Fix Data Sheet

Specification notes

Product: Ultracrete Joint Fix

Supplier:
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Call 01925 852225 or visit Arcon Construction Supplies
... for more information on our flooring and construction products
**Information**

*Ultracrete Joint Fix* is a resin based liquid surface and sand joint sealer. *Joint Fix* has special properties which allow it to bind jointing sand together to form an elastic jointing sealant, when applied to the surface of most concrete / clay pavement materials. Ideal for flexible construction, *Joint Fix* provides an aesthetically pleasing durable pavement finish.

**Surface Preparation**

On newly laid projects, *Joint Fix* should be applied during construction of the pavement. This will ensure minimum preparation is required.

On established paving, remove all dirt, debris, weed growth, oil and any other contaminates. This can be achieved by sweeping, washing or degreasing.

Existing projects will need more aggressive cleaning in order to remove 20 - 30mm of existing joint sand. *Joint Fix* cannot be applied to old joint sand.

*Note: Ultracrete Joint Fix* should not be used on non-porous stone, brick finishes or marble. It is advisable to carry out tests on small areas prior to use. *Ultracrete Joint Fix* is supplied in ready to use tins.

**Placing Jointing Sand**

*Ultracrete Joint Fix* must be absorbed within the jointing sand to ensure an effective elastic seal. Achievement of this penetration relies upon sand and blocks being dry at the time of application. If the sand is damp or wet, absorption of the *Joint Fix* liquid will not take place.

Consideration must be given to substrate moisture content affecting joint sand, also recent weather conditions. *Joint Fix* should only be applied when a dry period is forecast for the next 5 hours.

Do not apply *Joint Fix* at temperatures above 30°C or below 5°C or when dewpoint is likely to be achieved. Drying times are affected by ambient and surface temperatures.

*Note:* Always ensure a dry substrate and joint before application of jointing sand.

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**Liquid Sealer/Sand Stabiliser**

**Features & Benefits**

*Ultracrete Joint Fix* is a specially formulated liquid sealer, supplied in ready to use tin.

- Stops loss of jointing sand through vacuum / washing / sweepers.
- Prevents water ingress and substrate frost damage.
- Reduces staining from oils, foodstuffs and general spillage.
- Maintains elasticity of joints in flexible construction.
- Inhibits weed and moss growth.
- Reduces the adhesion of chewing gum.

**Recommended Applications**

Town centres, pedestrian schemes, airport taxi-ways, driveways, garage forecourts.

- Clay Paviours
- Concrete Flags
- Natural Stone
- Concrete Block Paving

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**Related Products**

*Joint Fix* is part of the Streetscape range, using the system ensures compatibility and reduces split liability.

- **Ultracrete HS**  Fine bedding mortar.
- **Ultracrete GSB** Streetscape bedding mortar.
- **Ultracrete Flowpoint** Rapid jointing grout
- **Ultracrete Cempoint** Gun applied pointing mortar
Joint Sand Application

The successful use of Joint Fix depends upon careful application of the jointing sand.

Jointing sand should be dry <5% moisture content and conform to BS 7533 - 7.2002 Recommendation for laying course material and jointing material grading.

Jointing sand is simply applied by brushing into place with a soft broom. Joints should be filled at least 25-30mm with approved sand. This typically applies to refurbishment of existing pavements. New construction should be filled 100% joint depth.

Joint Fix will accommodate widths of between 2mm-20mm. Always remove residual sand from chamfer or top of setts/blocks. Application of Joint Fix will bond sand, making removal later difficult.

<table>
<thead>
<tr>
<th>Table C.1 - Grading requirement for jointing sand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sieve Size</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>5.00mm</td>
</tr>
<tr>
<td>2.36mm</td>
</tr>
<tr>
<td>1.86mm</td>
</tr>
<tr>
<td>600µm</td>
</tr>
<tr>
<td>300µm</td>
</tr>
<tr>
<td>150µm</td>
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<tr>
<td>75µm</td>
</tr>
</tbody>
</table>

Application of Joint Fix

Always ensure correct PPE is used. Ensure all drains are covered to prevent unwanted escape of product. It is advisable to protect grass and other planted areas. Smoking should not be permitted whilst using the product. It is advisable to prevent any naked flames or smoking in the vicinity of application as Joint Fix is flammable.

Transfer Joint Fix from its container into a watering can with a fine rose attached. Apply to the surface at the following rates: Based upon 100 x 200 CBP with joint widths of 2mm-4mm = 1 litre per 2m² per coat. Type and porosity of pavours will affect absorption. Trials should be carried out to gauge exact yield. Work well into the surface using a squeegee or similar at a 45° angle across joints. Care should be taken not to disturb jointing sand. Always clean areas from unwanted splashes or spillages immediately.
**Overcoating**

*Joint Fix* should be applied as a single coat to bind jointing sand, to achieve maximum protection from oils and general spillage; it is advisable to apply a 2nd coat. Clay pavours require a single coat application only.

Drying times 120 minutes @ 20°C
Overcoat time 60 minutes - 3 hours (touch dry)
Pedestrian traffic 3 hours
Vehicular traffic 18 hours
Drying times are affected by temperature. Hot temperatures accelerate, cooler temperatures retard.

*Joint Fix* may change the appearance of surfacing material, this change of colour and finish will dull when trafficked. It is advisable to carry out a test on a discrete area prior to wholesale application.

### Typical Chemical Resistance Properties

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Rating [out of 5]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1M KOH</td>
<td>5</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>5</td>
</tr>
<tr>
<td>House Bleach</td>
<td>5</td>
</tr>
<tr>
<td>0.1M HCl</td>
<td>5</td>
</tr>
<tr>
<td>Water</td>
<td>5</td>
</tr>
<tr>
<td>Acetone</td>
<td>4</td>
</tr>
<tr>
<td>Petrol</td>
<td>5</td>
</tr>
<tr>
<td>Diesel</td>
<td>5</td>
</tr>
<tr>
<td>IPA/Water</td>
<td>4</td>
</tr>
<tr>
<td>Skydrol</td>
<td>2</td>
</tr>
</tbody>
</table>

### Typical Film Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elongated at Break</td>
<td>ca. 250%</td>
</tr>
<tr>
<td>UTS</td>
<td>ca. 16 MPa</td>
</tr>
<tr>
<td>Persoz Hardness</td>
<td>135</td>
</tr>
<tr>
<td>Touch Dry Time</td>
<td>30 minutes</td>
</tr>
<tr>
<td>B K Drying Time</td>
<td>ca. 2 hours</td>
</tr>
</tbody>
</table>

### Resistances

**Abrasion Resistance**

*Joint Fix* surface treatment may be classified as “Special”, in accordance to BS8204: Part 2: 2002.

**Slip Resistance**

The slip resistance, as measured by PTV, for *Ultracrete Joint Fix* surface treatment was found to be high, and satisfies the requirement of BS 8204 : Part 2: 2002.

**Stain Resistance**

*Ultracrete Joint Fix* also resists staining by, Ketchup, Red Wine, Vinegar, Coffee, Mustard, Blackcurrant Juice.
Ultracrete products are guaranteed against defective materials and manufacture, and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept any liability arising from the application or use of our products because we have no direct or continuous control over where and how our products are used. All products are sold subject to our conditions of sale, copies of which may be obtained on request.

**Health & Safety**

**Ultracrete Joint Fix** has a flash point of 43°C. Keep container closed when not in use. Avoid inhalation of fumes and work in well ventilated areas. The use of barrier creams and protective clothing including gloves, goggles and face mask are recommended.

**Ultracrete Joint Fix** can be removed from the skin by using a suitable cleansing cream or soap and water. If swallowed will cause discomfort, nausea and possibly vomiting.

<table>
<thead>
<tr>
<th>Unit/Packaging</th>
<th>25Litre metal tins</th>
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<tbody>
<tr>
<td><strong>Storage</strong></td>
<td>Containers should always be kept upright and tightly sealed to avoid leaking. Store preferably at room temperature. Store away from heat and naked flames. Temperatures in excess of 30°C should be avoided. Under appropriate conditions the material has a storage life of at least 12 months in original closed containers.</td>
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</table>
| **Colour**            | Clear Liquid Resin  
Please be aware that there may be a colour variance after application causing it to appear approximately 10% darker. |

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