



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Ultracrete Joint Fix Data Sheet

Specification notes

Product: **Ultracrete Joint Fix**

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Liquid Sealer/Sand Stabiliser

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 contaminants. 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.



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.
- Manufactured under a Quality Assurance Scheme BS EN ISO 9001:2000.

Recommended Applications

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

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

Related Products

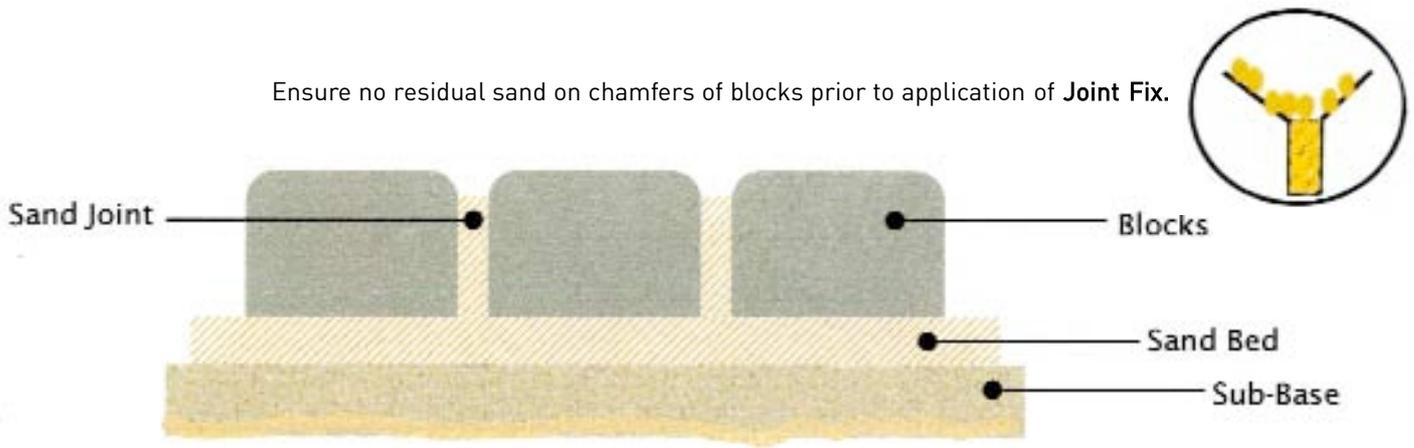
Joint Fix is part of the Streetscape range, using the system ensures compatibility and reduces split liability.

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.

Ensure no residual sand on chamfers of blocks prior to application of **Joint Fix**.



Jointing sand should be dry <5% moisture content and conform to BS 7533 - 7:2002 Recommendation for laying course material and jointing material grading.

Table C.1 - Grading requirement for jointing sand	
Sieve Size	Percentage passing each sieve (%)
5.00mm	100
2.36mm	100
1.86mm	95 - 100
600µm	50 - 100
300µm	15 - 60
150µm	0 - 15
75µm	0 - 3



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.

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 pavements 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 pavements 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

Reagent	Rating (out of 5)
0.1M KOH	5
Acetic Acid	5
House Bleach	5
0.1M HCl	5
Water	5
Acetone	4
Petrol	5
Diesel	5
IPA/Water	4
Skydrol	2

Typical Film Properties

Elongated at Break	ca. 250%
UTS	ca. 16 MPa
Persoz Hardness	135
Touch Dry Time	30 minutes
B K Drying Time	ca. 2 hours

Resistancies

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.

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.

Unit/Packaging	25Litre metal tins
Storage	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.
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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