



## Kingfisher Product Data Sheet

# Pointing Solution - “Repairs that stand the test of time”

### Description

“Kingfisher Pointing Solution” is a liquid styrene butadiene co-polymer latex, designed as the “fit and forget” admixture for new pointing and repair mixes. Outperforms standard “plasticiser” and “water-proofer” admixtures in terms of adhesion, long term weather resilience and flexibility. Use with both simple sand and cement mixes or with pre-bagged pointing mortar for uniform colour. Lubricating formula is essential to prevent accelerated wear of our powered “Quikpoint Gun” professional pointing system.

Companion / Related Products:

- Kingfisher “Bio-Wash”.
- Kingfisher “Bio 3” stone and brick cleaner.
- Kingfisher “Pointing Mortar”.
- Kingfisher “Extreme Climate” one coat masonry protection.
- Kingfisher “Quikpoint Gun” rapid pointing system.

Refer to these individual product data sheets for detailed application guidance – published on our website [www.kingfisheruk.com](http://www.kingfisheruk.com).

### Uses

For professional re-pointing of all types of brick, paving, flagstones, ridge tiles, block and stonework in domestic, commercial, agricultural and industrial buildings where consistency of colour is desired in remedial or restoration works.

Pointing solution easily transforms the elasticity, durability and waterproofing of both standard sand / cement mixes and pre-bagged pointing mortars. Use to speed up and enhance:

- Re-pointing of brick walls
- Re-pointing of stone walls
- Pointing of new builds
- Repair mixes
- Batch mixed sand and cement mortars
- Pre-bagged (ready-to-use) pointing mortars

### Advantages

- Work faster with less “slump” and greater accuracy
- Shower proof in as little as 20 minutes

- Thinner section repairs without loss of strength
- Long life repairs compared to standard mortar mixes
- Lubricates “Quikpoint Gun” mechanism, greatly reducing component wear
- Reduces frost damage
- Stops lateral penetrating damp through mortar joints
- Superior salt resilience
- Enhanced weather erosion protection
- Greatly enhanced flexural strength
- Tensile strength improved
- Reduced shrinkage and therefore fewer cracks

## Surface Preparation

### 1. Pre-treat with “Bio Wash” (kills moss, green mould & lichens).

Liberally spray the entire wall surface with Kingfisher “Bio Wash” using a low pressure sprayer (as for garden weed-killer) and leave to activate. This effectively sanitises the wall by killing the obvious areas of moss, lichen and green mould growth as well as the hidden spores buried deep in the substrate and mortar joints.

### 2. Clean Wall (remove debris)

The extent and type of cleaning required will depend on the condition and type of wall. Typically a wall that needs re-pointing will be in a vulnerable state, with crumbling mortar joints and possibly “blown” faces. Consequently aggressive cleaning methods like pressure washing are unlikely to be appropriate as this will inevitably result in further damage and in the worst case moisture penetration into the building.

Use hand wire brushes and the extended pole type for harder to reach areas (available from Kingfisher) to remove stubborn deposits. Typical black carbon marking can often be removed very effectively with two applications of Kingfisher “Bio 3” stone and brick cleaner (neutral formula). Old mortar staining can be removed using Kingfisher “Max Strength” patio cleaner which is a traditional formula brick acid with a cleaning agent (wear impervious rubber gloves and full eye and face protection).

Note: Vulnerable or friable areas should be tested on a small area with different cleaning methods before full treatment.

### 3. Rake out Joints

The key to successful re-pointing that doesn’t “fall out” at the first sign of bad weather is to ensure that the joints are correctly prepared. This means removing as much of the old mortar as possible without damaging the surrounding bricks or stonework. Joints should ideally be raked to a depth 1.5 times their width which is sufficient to give the joint both intrinsic mechanical strength and sufficient adhesion into the substrate.

“Raking out” can be effected by using manual mortar raking tools and wire brushes on both stone and brick work. However, professional operators should use our “Mortar Rake” kit which can be fitted to most small angle grinders and is perfect for use on large areas of brickwork where rapid preparation is essential to site productivity. The sole plate ensures smooth progression and precision cutting depth while the cutting blade (router) is available in 3 different sizes to suit most joint widths.

Note: We do not recommend raking out with angle grinders fitted with circular diamond blades as these are prone to “running out” and “gashing” brickwork. Our “Mortar Rake” has the advantage of powered

cutting speed but with a level of control similar to a joiner's "router", you risk very little damage to surrounding masonry.

Finally brush out and flush loose material residues from the joint with a compressed air line or a soft hose. Do not over-wet, as this may cause efflorescence to develop. Leave damp.

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## Application

Having cleaned the surface and raked to a minimum depth of 1.5 times the width of the joint you are now ready to apply the mortar.

1. **Pre-mix Gauging Liquid.** In a 10L builders' bucket or similar mix one part "Pointing Solution" to 5 parts water and stir.

2. **Mix mortar.** In another container add the desired quantity of "Kingfisher Pointing Mortar" \* (we recommend starting with a small 5Kg mix) and then slowly add the diluted "Pointing Solution" (approx 0.8 litres per 5 Kg mortar). Ideally you should power paddle this with a Kingfisher mixing attachment on a slow speed drill (400-600 rpm) until you achieve a workable consistency. The Kingfisher attachment does not entrain air into the solution thus eliminating the possibility of unnecessary shrinkage. Note: The amount of liquid added should not exceed 4 litres per 25 kg bag of dry mortar. If the facilities/tools for power mixing are unavailable, then the mortar can be mixed by hand. Mix only small (5kg) quantities by adding powder to diluted pointing solution. Stir vigorously with a flat bladed trowel or paddle. Ensure contents are thoroughly mixed.

\*Alternatively, If using standard building sand & Portland cement, mix 1 part cement to 5 parts sand before adding the "Pointing Solution". For paving applications or harsh environments strengthen the mix to 1 part cement to 3 parts sand.

3. **Stand.** Allow the mortar to stand for about 5 – 10 minutes to allow full saturation, and briefly remix, adding a small amount of liquid, as necessary to give optimum consistency.

4. **Apply.** Either fill the "Kingfisher Quikpoint Gun" and apply in accordance with equipment instructions or trowel apply by traditional method.

a) If using the "Kingfisher Quikpoint Gun" insert the nozzle at least 4mm into the joint and gently squeeze the trigger.

b) Fill the vertical joints first and after 1 to 2 m return to fill the horizontal joints.

c) Draw the nozzle slowly along the joint, matching the delivery flow rate such that the bead of mortar effectively fills from the back of the joint.

d) Strike off excess to required shape when mortar has lost its sheen and finish smoothly with a slender pointing trowel/ spatula.

e) Brush off any excess mortar after initial set but before it fully cures.

5. **Water Repellent Treatment.** For long term protection of both the new pointing and crucially the brick or stone work, apply one coat of "Kingfisher Extreme Climate" to the entire wall. This gives up to 10 years protection against penetrating damp. Allow the mortar to cure for 14 days before applying "Kingfisher Extreme Climate"

## Product Data for Pointing Solution

<b>Appearance</b>	Milky white liquid
<b>Dilution Ratio</b>	1 part Pointing Solution to 5 parts water (The amount of dilute pointing solution and water combined should not exceed 4 litres per 25 Kg bag of mortar or sand / cement)
<b>Solids Content</b>	40%
<b>Specific Gravity</b>	1.01
<b>Coverage</b>	See dilution ratio
<b>Application temperature</b>	+5 °C to +25 °C
<b>Service Temperature</b>	-20 °C to +50 °C

### Packaging

Kingfisher "Pointing Solution" is supplied in 5 & 25 litre cans.

### Clean up

Wash tools, mixers, trowels etc. immediately after use in clean water.

### Storage

Store in original packaging in a cool dry place, out of direct sunlight and protect from frost. Note: Once frost damaged the product is unusable and cannot be recovered by warming up or any other means.

### Shelf Life

The product has a shelf life of 12 months from the date of manufacture, subject to correct storage conditions.

## HEALTH & SAFETY

- When preparing and cleaning the surface, wear a face mask (minimum FFP2).
- Wear protective gloves and overalls during preparation and application.
- Avoid contact with skin and eyes.
- If contact occurs wash immediately with plenty of clean water.
- Keep out of reach of children.
- Ensure good ventilation during application and drying.
- Always dispose of empty packaging responsibly.

The product is non-hazardous in normal use.

Before using this product read the Material Safety Data Sheet which can be obtained at [www.kingfisheruk.com](http://www.kingfisheruk.com) or by calling the Kingfisher Technical Dept. Tel: 01229 869 100.

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