

# FIX-R

## PRODUCT DATA SHEET

# Liquid Waterproofing

A hybrid liquid waterproofing system



### Product Description

**FIX-R Liquid Waterproofing System** is a new hybrid polymer liquid waterproofing system based on alpha-hybrid silane terminated polyether technology. While it exceeds most performance criteria for polyurethane, PMMA and other solvent based systems, it also eliminates many of the disadvantages associated with these products.



**FIX-R Liquid Waterproofing System** is a one-component liquid waterproofing system and is Isocyanate free, contains no solvents, has very low volatile organic compounds (VOC) and does not require classification or marking as a hazardous substance.

It is fully reinforced with a polyester membrane and cures through contact with the moisture in the atmosphere. Being largely independent of the weather it can be applied under practically any conditions.

### Recommended Uses

- New build, repair or refurbishment projects
- Flat roofs, balconies\*, terraces\* and walkways\*
- Complex detailing, up-stands, penetrations and terminations
- Recoating failed single ply roofs
- Fountains and water features
- Warm roofs, cold roofs, and inverted warm roofs
- Internal plant rooms and wet rooms
- Heritage properties and lead replacement
- Waterproofing gutters, valley gutters and drainage channels
- Encapsulate asbestos or fibre cement
- Waterproofing profiled metal roofs

### Advantages & Benefits

- Cost effective wet-on-wet application
- Minimum wastage - unused product can be stored and reused\*\*
- Water repellent on application
- Ready to use, single liquid component
- Fully reinforced with polyester fabric
- Can be applied all year round above 0°C
- Can be recoated
- Strong adhesion to most conventional substrates
- Excellent elasticity and tensile strength
- Resistant to standing water
- No shrinkage - 100% solids
- UV stable
- Vapour permeable
- Virtually odourless
- Non hazardous - solvent-free
- Extremely low VOC's
- Extendable Warranty

\* Under a suitable decking or paving system

\*\* Sealed and then stored between 5°C - 35°C

## Components

Bucket sizes:	5 litre, 15 litre
FIX-R Fabric sizes:	25m x 1m wide or 25m x 250mm wide
FIX-R Jointing tape:	25m x 100mm

## Approvals

<b>Road Hazardous Products Regulations</b>	Not a hazardous product (Road Hazardous Product Regulations) (GGVS)
<b>Hazardous Substances Regulations</b>	No hazardous substance according to EU Directive 1999/45/EC
<b>Chemical Acids &amp; Alkali Resistance</b>	DIN 16726
<b>CE Marking Compliant Performance</b>	005/006/02/03/04/13 ver.1072013
<b>External Fire</b>	BROOF(t4)

## Technical Characteristics

<b>Base Material</b>	Solvent-free, silane terminated polyether
<b>Density</b>	Approx. 1.35g cm <sup>3</sup> (ISO 8962)
<b>Colours</b>	Light Grey and Anthracite
<b>Application Temperature</b>	0°C to 45°C
<b>Surface Limits</b>	-20°C to 80°C
<b>Coverage Rate</b>	1.5L/m <sup>2</sup> (minimum) - subject to substrate and application conditions
<b>Storage Life</b>	Original sealed containers: 12 months @ 5°C - 35°C
<b>Foot Traffic</b>	Not suitable for heavy foot traffic

## Application Conditions

- Application temperature should be in the range of 0°C to 45°C.
- Please be aware of the effect of dew – our recommendation is that the substrate temperature should be at least 3°C higher than the temperature at which dew forms – i.e. the 'Dew Point'.
- Do not apply FIX-R Liquid Waterproofing if rain is imminent or likely to fall during application.

## Surface & Product Preparation

- Surfaces must be free from dust, loosely adhering particles, chippings, oil, grease, algae, mildew or fungal growth.
- While FIX-R Liquid Waterproofing can be applied to damp surfaces the moisture content of the substrate must be less than 7%.
- Stir the product thoroughly with a mechanical mixer (2 - 3 minutes).
- In low winter temperatures the product will thicken if left outside and the indicated coverage rates will be difficult to achieve. It is advised that the product is kept in a warm place until you are ready to apply the liquid.
- FIX-R Liquid Waterproofing can be applied directly to most substrates without the need for priming. Depending on the condition of certain surfaces and substrates, a stain blocker or primer may be required: please contact our Technical Department for advice on 01480 466777.
- If adhesion is in doubt, perform an Adhesion Test.

## Adhesion Test

It is recommended that at least three test patches are installed at different locations on the roof for all questionable roof substrates to verify adhesion of the FIX-R Liquid Waterproofing System. Conduct an Adhesion Test as follows:

1. Clean areas of the substrate approximately 270mm x 270mm.
2. Use a piece of FIX-R Fabric, 250mm x 250mm and approximately 0.5 L of FIX-R Liquid Waterproofing on each test area.
3. Apply a layer of liquid coating over each area and embed the fabric.
4. Apply a second layer of liquid coating over the fabric and 10mm around the fabric.
5. Allow to cure for a minimum of 24 hours but for best results, allow 5 days.
6. Check adhesion by slicing an "X" approximately 150 mm in size near the centre of the test patch.
7. Using a spatula, try to remove the material at the centre of the "X".
8. Test patches that show good adhesion will release with difficulty and may leave some of the coating on the underlying substrate.
9. Test patches that peel up easily with no coating left on the underlying substrate reflect poor adhesion.

If adhesion is in doubt, please contact our Technical Department for further instructions.

## Application

### Method

- This is a wet-on-wet system.
- Apply the base coat of FIX-R Liquid Waterproofing to the substrate using a brush or roller. Place the fabric into the liquid so that saturation occurs.
- Ensure that no air is trapped beneath the fabric and that there are no creases in it.
- Apply the top coat of FIX-R Liquid Waterproofing to the saturated fabric using a brush or roller ensuring that a smooth finish is achieved and that the fabric is completely covered.
- Leave to cure.

### Detailing

- All detailing should be applied before proceeding with the field area.
- Where boards meet, all joints must be covered with 100mm FIX-R Jointing Tape before applying the field area.
- For upstands, penetrations and edge details use 250mm wide fabric before applying the field area.

### Field Areas

- Use the wet-on-wet method described above to apply 1 metre wide fabric to the field area.
- Make sure all fabric overlaps by at least 75mm.

## Drying & Curing

- This system is water repellent on application. However, if rain does fall before the waterproofing liquid 'skins over' the surface may incur small indents, which will require a light overcoat once completely dry to ensure a smooth finish.
- Check that there are no pinholes visible in the finished surface. Should any appear, apply a light coat of the product to these areas.
- Drying time is approximately 2 hours at 20°C / 60% relative humidity.
- Full cure will occur in 5 days.

## Coverage

- The coverage rate of FIX-R Liquid Waterproofing will vary depending on the porosity of the surface, texture of the substrate and whether or not a primer is necessary.
- As a general guideline the coverage rate is 1.5 L/m<sup>2</sup> (minimum) - subject to conditions above.

## Overcoating

Any areas to be recoated or repaired after 16 hours must be abraded as follows before over coating:

- Use 60 - 80 grit sand paper.
  - Lightly abrade area to be recoated, either by hand or using a random orbital sanding machine. **DO NOT USE A BELT SANDER.**
  - Abrade until surface of coating loses its sheen and appears 'dull'.
  - Brush off loose particles of product.
  - Recoat within 12 hours.
  - Do not allow abraded surface to get wet before recoating. If this occurs the process will need to be repeated.
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## Clean Up

- Uncured FIX-R Liquid Waterproofing can be dissolved with mineral spirits.
  - Cured FIX-R Liquid Waterproofing can only be removed mechanically.
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## Storage

- Unused product can be kept for the duration of the shelf life by resealing the bucket lid.
  - When re-opening to use, if a skin has formed, simply remove the skin and stir before use.
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## Safety & Handling

For specific information regarding safe handling of this material please refer to the Safety Data Sheet (SDS).



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