



PITCHED AND FLAT ROOFING SOLUTIONS

LIQUID ROOFING

INSTALLATION

GUIDE



Offering a comprehensive range of solutions for the refurbishment and maintenance of flat and pitched roofs, or for the laying of a new flat roof, FIX-R is the ideal partner for roofing contractors.

Whether applying EPDM, liquid waterproofing or GRP systems, we have a solution for all your requirements and our technical backup is always on hand for support when you need it.

To find out more about the full FIX-R product range, pick up a copy of our **Pitched & Flat Roofing Solutions brochure** at your local SIG Roofing branch, or download a copy now by scanning the QR code below or by visiting our website, www.fix-r.co.uk.



SCAN ME
To download your copy now



TRIED & TESTED

We have been helping roofing contractors create the perfect flat roof, with our tried and tested solutions, for over 15 years.



A QUALITY SOLUTION

With 10, 15, 20 and 25 year warranties available across the range, you can be assured our FIX-R systems are there to last, giving you and your customers peace of mind. T&C's apply.



PRODUCTS FOR PROFESSIONALS

Our FIX-R products have been developed utilising the latest technologies, so professional roofing and home improvement contractors can be assured of a consistently reliable choice.



NATIONWIDE AVAILABILITY

Exclusive to SIG Roofing, FIX-R is available in over 100 branches across the UK.



WIDE RANGE

Our comprehensive range of flat roofing solutions includes EPDM, bituminous membranes, liquid waterproofing and GRP systems, ensuring you have access to solutions for every situation.



ONE WARRANTY

We are so confident in the quality of our products, that most are included in SIG Roofing's ONE Warranty, a single warranty that covers all of the key elements of your roof. T&C's apply.



PRODUCT TRAINING & TECHNICAL SUPPORT

When you purchase any of our FIX-R products and systems, you can be confident that we will be here to support you now and in the future with our ongoing product advice, robust warranties and technical support.

Our dedicated technical email address is fix-rtechnical@sigroofing.co.uk

CONTENTS

FIX-R LIQUID ROOFING SYSTEM	4 - 5
Product Range	
LIQUID ROOFING INSTALLATION GUIDE	6 - 10
Application Conditions	
Overcoating	
Surface & Product Preparation	
GP Primer & Stain Blocker Primer Application Instructions	
Adhesion Test	
Application Technique	
DEW POINT CALCULATOR	11

FIX-R LIQUID ROOFING SYSTEM

Our Liquid Roofing system is a cold-applied, solvent-free, virtually odourless system creating a seamless, liquid waterproofing membrane for almost any roof substrate - whether new or as an overlay to existing.

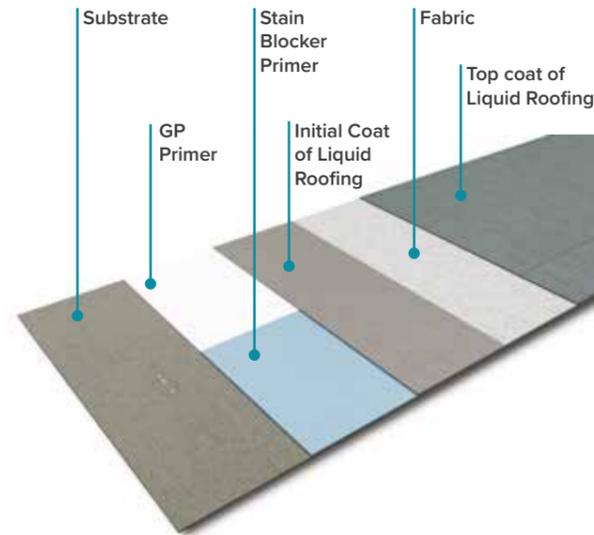
The system is a firm favourite for roofers working in sensitive locations such as schools, hospitals and sites with AC units due to its low odour and low VOC's.

Fully reinforced with polyester fabric, it has also been developed for application all year round** and can be applied wet-on-wet meaning damp and cold conditions are no longer a barrier to getting started on your project.

MATERIAL WARRANTY



15 YEAR MATERIAL WARRANTY AVAILABLE*



FEATURES & BENEFITS

- 15 year material warranty*
- Solvent free - low odour
- Can be applied all year round including cold and damp conditions**
- Minimum wastage - unused product can be stored and reused***
- FIX-R GRP range of trims can be used with this system

*T&C's Apply

** Above 5°C

***When sealed and stored between 5°C - 35°C

OUR SYSTEM

LIQUID ROOFING

PREPARATION



GP PRIMER

Use GP Primer to promote adhesion of our Liquid Roofing onto PVC membranes, a timber deck surface and fiberglass materials.

Available in 4L e.

Product Coverage

GP Primer = 0.1/m² (Minimum - Subject to Substrate and application conditions)



STAIN BLOCKER PRIMER

When applying the Liquid Roofing system to an existing bitumen or asphalt based deck, apply Stain Blocker Primer to the surface to help fill minor irregularities in the surface.

Available in 4L e.

Product Coverage

Stain Blocker Primer = 0.3l/m² (Minimum - Subject to Substrate and application conditions)

FINISHING



FABRIC

This polyester fabric is used to reinforce the liquid roofing system.

Available in 25m rolls and widths of 100mm, 250mm and 1000mm.



LIQUID ROOFING

Apply an initial coat of Liquid Roofing and embed the fabric into the wet base. Apply a subsequent coat of Liquid Roofing on top of the fabric. This topcoat can be used as an additional coat at any time throughout its lifetime without the need for abrasion or primers.

Available in 4L and 15L e.

Colour: Grey and Anthracite

Hazard Classification: H412

Minimum Coverage

Liquid Roofing = 1.2 - 1.4l/m² (Minimum coverage rate is dependent on FIX-R Reinforcing Fabric used and subject to the substrate and application conditions. Please see page 10)

Please refer to the Safety Data Sheet(s) prior to use, available on request or via <https://www.sigroofing.co.uk/roofingproducts/fix-r/fix-r-liquid-roofing-system/>

Storage Instructions can be found on the product label

FIX-R LIQUID ROOFING SYSTEM

IDEAL FOR

ASPHALT / FELT ROOFS

BALCONIES

CEMENT FIBRE ROOFS

COMMERCIAL

COMPLEX DETAILING

CORRUGATED METAL ROOFS

DOMESTIC

DORMER ROOFS

EXTENSIONS

FLASHINGS

GARAGES

GREEN ROOFS

HOSPITALS

LARGE ROOFS

NEW BUILD

RECOATING FAILED SINGLE PLY ROOFS

REPAIR / REFURBISHMENTS

SCHOOLS

SMALL ROOFS

WALKWAYS

WINTER APPLICATION



SCAN ME

To find out more about FIX-R LIQUID ROOFING SYSTEM

FIX-R LIQUID ROOFING INSTALLATION GUIDE

A. APPLICATION CONDITIONS

- The Health & Safety Executive has published guidance for roof works HSG33 <https://www.hse.gov.uk/pubns/books/hsg33.htm>
- Minimum surface temperature: 5°C and rising
- Maximum surface temperature: 40°C and falling
- All surfaces must be sealed initially using the appropriate FIX-R Liquid Roofing Primer
- Always abrade before over coating
- Surface temperature must be 3°C above the dew point (see page 11 for Dew Point Calculations table)
- DO NOT apply if rain is imminent
- Not suitable for heavy foot traffic

B. OVERCOATING

Any areas of the FIX-R Liquid Roofing System that require re-coating or repair:

- All surfaces must be clean and dry. There is no requirement to abrade or prime.
- Simply apply a further coat of FIX-R Liquid Roofing by brush or roller.

PLY DECK

- Liquid Roofing top coat
- Fabric
- Liquid Roofing base coat
- GP Primer
- Ply deck

BITUMEN OVERLAY

- Liquid Roofing top coat
- Fabric
- Liquid Roofing base coat
- Stain Blocker Primer
- Bituminous substrate

WARM ROOF

- Liquid Roofing top coat
- Fabric
- Liquid Roofing base coat
- GP Primer
- PIR Insulation
- Bituminous felt
- PU Adhesive

C. SURFACE & PRODUCT PREPARATION

Before applying FIX-R Liquid Roofing ensure that all surfaces are sound and free from loose materials, oil, grease, algae, mildew or fungal growth. All surfaces must first be primed with the appropriate primer and allowed to dry prior to any further application of the system.

NEW BOARDS

- Prime using FIX-R GP Primer and allow to fully cure
- Use FIX-R Fabric 100mm on a base coat of FIX-R Liquid Roofing

APPROVED INSULATION

- Prime using FIX-R GP Primer and allow to fully cure
- Use FIX-R Fabric 100mm on a base coat of FIX-R Liquid Roofing

BITUMINOUS MEMBRANES

- Cut and stick down any bubbles and remove any loose chippings or mineral
- The surface must be sealed using FIX-R Stain Blocker and allowed to fully cure

ROOFING ASPHALT

- Remove any bubbles and remove any loose chippings. If chippings are embedded, consider using a recovery board
- The surface must be sealed using FIX-R Stain Blocker and allowed to fully cure

CONCRETE/SCREED

- Make sure the concrete is fully cured and check that the moisture content is below 7%
- If 'gassing' is still occurring, please contact our Technical Department for advice on priming

GRP AND GRP TRIMS

- Fully abrade the surface prior to application of FIX-R GP Primer

METAL

- Remove any rust and degrease

SINGLE PLY/EPDM MEMBRANES

- Make sure all areas are fully bonded or fixed to the existing roof deck. Use 100mm FIX-R Fabric embedded in a base coat of Liquid Roofing to repair cuts and tears
- Perform an Adhesion Test to determine primer selection

EXISTING COATINGS

- Remove any loose or flaky materials to a sound surface. Perform an Adhesion Test to determine primer selection

PVC PIPES AND OUTLETS

- Fully abrade the surface prior to application.

Note: Use FIX-R Fabric 100mm to repair any gaps in the surface on a base coat of FIX-R Liquid Roofing before applying FIX-R Liquid Roofing.

D. GP PRIMER & STAIN BLOCKER PRIMER APPLICATION INSTRUCTIONS

1. Remove the lid of the container and stir product with a mixing stick or a mechanical mixer at low speed until it has reached an even consistency
2. Apply product to the substrate using a roller or a brush (product may also be spray applied)
3. The minimum consumption is 0.1 L/m²; this may increase depending on the texture of the surface
4. Allow primer to dry thoroughly before applying FIX-R Liquid Roofing

Please Note: FIX-R GP Primer is milky white when applied. As the primer dries, it becomes transparent giving the surface a 'shiny' appearance. If the 'shine' is not visible apply a further coat, wait for it to dry and check the surface. Only when the surface has a shiny appearance is it ready to receive FIX-R Liquid Roofing.

Please Note: FIX-R Stain Blocker Primer must fully cover the substrate surface area and have a consistent blue colour throughout; if this is not the case, apply a further coat until a consistent blue colour is achieved.

FIX-R Liquid Roofing must be applied to the primed surface within 8 days of application. If left longer, the surface must be re-primed.

E. 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 Roofing System. One small test area should be tested using GP Primer and one area not primed. This will help determine if a primer is required or that the correct primer is being used.

Conduct an Adhesion Test as follows to determine which FIX-R primer to use:

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 Roofing 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 the 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.

F. APPLICATION TECHNIQUE

FIX-R Liquid Roofing should be applied wet-on-wet with a roller or brush.

Mix using a suitable mixing stick or a mechanical mixer at low speed. Do not mix at high speed or over agitate the liquid when mixing, as this will result in air becoming trapped in the liquid. If this does occur, allow the product to settle for approximately 5 minutes or until no air bubbles are visible.

At low temperatures the liquid may thicken, which can affect consumption. Therefore we recommend that containers are stored at room temperature before use where possible.

1. Apply a base coat of FIX-R Liquid Roofing to the prepared substrate at approximately two thirds of the total consumption rate.
2. Place the FIX-R Fabric into the base coat making sure there are no creases in the fabric and that no air is trapped beneath it.
3. Apply a top coat of FIX-R Liquid Roofing to the saturated fabric at approximately one third of the total consumption rate.
4. Allow to cure.

TOOLS REQUIRED

- Paint Roller
- Scissors
- Brush
- Gloves

DRYING & CURING

- If rain falls before the waterproofing liquid 'skins' over the surface, it may incur small indents. Should this occur, apply a light overcoat once completely dry to ensure a smooth finish.
- The system will dry or skin over in 45 minutes to 2 hours. Full cure will be reached in 3 to 5 days.

The minimum coverage rate is dependent on fabric used and subject to the substrate and application conditions.

1.4L/m² minimum coverage when used with FIX-R Reinforcing Fabric Spunbonded (10761969, 10761967, 10761970)

1.2L/m² minimum coverage when used with FIX-R Reinforcing Fabric Stich Bonded (10660674, 10660675, 10660677).

It is recommended that you begin with any detail work first and then apply the field area. All details should be double reinforced with FIX-R Fabric cut to specific patterns for corners, outlets and vent pipes. Use FIX-R Fabric 100mm on a base coat of FIX-R Liquid Roofing on board and insulation joints and then cover with the full system.

When the fabric overlaps on a flat surface, it must have an overlap of 75mm minimum. On vertical surfaces such as pipes or outlets, it must have an overlap of 50mm minimum.

CLEAN UP

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

UNUSED PRODUCT

- Unused product can be kept for the duration of the shelf life by resealing the bucket.
- When re-opening to use, if a skin has formed, simply remove the skin and stir before use. DO NOT stir the skin into the material.

DEW POINT CALCULATIONS

For example, an air temperature of +20 °C with 60 % relative humidity impacting on surfaces of +12 °C or cooler, will produce condensation.

Air Temperature (°C)	DEW POINT TEMPERATURE (°C) AT A RELATIVE HUMIDITY OF:											
	30%	40%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%
+30	+10.5	+14.9	+18.4	+20.0	+21.4	+22.7	+23.9	+25.1	+26.2	+27.2	+28.2	+29.1
+28	+8.8	+13.1	+16.6	+18.1	+19.5	+20.8	+22.0	+23.2	+24.2	+25.2	+26.2	+27.1
+26	+7.1	+11.4	+14.8	+16.3	+17.6	+18.9	+20.1	+21.2	+22.3	+23.3	+24.2	+25.1
+24	+5.4	+9.6	+12.9	+14.4	+15.8	+17.0	+18.2	+19.3	+20.3	+21.3	+24.2	+25.1
+22	+3.6	+7.8	+11.1	+12.6	+13.9	+15.1	+16.3	+17.4	+18.4	+19.4	+20.3	+21.2
+20	+1.9	+6.0	+9.3	+10.7	+12.0	+13.2	+14.4	+15.4	+16.4	+17.4	+18.3	+19.2
+18	+0.2	+4.2	+7.4	+8.8	+10.1	+11.3	+12.5	+13.5	+14.5	+15.4	+16.3	+17.2
+16	-1.5	+2.4	+5.6	+7.0	+8.3	+9.4	+10.5	+11.0	+12.6	+13.5	+14.4	+15.2
+14	-3.3	+0.6	+3.8	+5.1	+6.4	+7.5	+8.6	+9.6	+10.6	+11.5	+12.4	+13.2
+12	-5.0	-1.2	+1.9	+3.3	+4.5	+5.6	+6.7	+7.7	+8.7	+9.6	+10.4	+11.2
+10	-6.8	-3.0	+0.1	+1.4	+2.6	+3.7	+4.8	+5.8	+6.7	+7.6	+8.4	+9.2
+8	-8.5	-4.8	-1.8	-0.5	+0.7	+1.8	+2.9	+3.9	+4.8	+5.6	+6.5	+7.3
+6	-10.2	-6.6	-3.6	-2.3	-1.2	-0.1	+1.0	+1.9	+2.8	+3.7	+4.5	+5.3
+4	-12.0	-8.4	-5.5	-4.2	-3.1	-2.0	-1.0	0.0	+0.9	+1.7	+2.5	+3.3
+2	-13.7	-10.2	-7.3	-6.1	-4.9	-3.9	-2.9	-2.0	-1.1	-0.3	+0.5	+1.3
0	-15.5	-12.0	-9.2	-7.9	-6.8	-5.8	-4.8	-3.9	-3.0	-2.2	-1.4	-0.7
-2	-17.3	-13.8	-11.0	-9.8	-8.7	-7.7	-6.7	-5.8	-5.0	-4.2	-3.4	-2.7
-4	-19.0	-15.6	-12.9	-11.7	-10.6	-9.6	-8.7	-7.8	-6.9	-6.1	-5.4	-4.7

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