



PITCHED AND FLAT ROOFING SOLUTIONS

# AVCL 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](http://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](mailto:fix-rtechnical@sigroofing.co.uk)

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# FIX-R AVCL



FIX-R Air & Vapour Control Layer (AVCL) is a self-adhesive bituminous membrane, with an aluminium foil laminate and glass fibre reinforcement.

The upper aluminium surface has a polyester coating that protects from alkalis and provides a suitable surface for polyurethane insulation adhesives to bond.

High vapour resistance enables it to be used in high-humidity environments, including swimming pools, sports halls, bathrooms and kitchens.

The AVCL is compatible with a range of common substrates including concrete, plywood, OSB, and metal decks. FIX-R AVCL will also withstand foot traffic during installation.

- Flame-free, cold application
- Puncture resistant and foot trafficable
- Self-adhesive
- High tear resistance and tensile strength
- Suitable for use in high-humidity environments

## SURFACE PREPARATION & PRECAUTIONS

- Ensure the ambient temperature and target surfaces are within the application temperature range of 5°C to 45°C.
- Surfaces should be structurally sound, clean, dry, frost free and free from dust, grease, loose material and other contaminants.
- FIX-R AVCL Primer will improve adhesion generally, and enhance adhesion at the lower application temperature range. It is required on all porous and vertical substrates.

The Health & Safety Executive has published guidance for roof works HSG33  
<https://www.hse.gov.uk/pubns/books/hsg33.html>

## INSTALLATION

1. Position the FIX-R AVCL to unroll at 90° to the roof slope.
2. Remove the release film and apply firm, even pressure by hand, broom or roller to avoid trapping air.
3. Continue subsequent runs of AVCL, allowing an edge overlap of 50-80mm, and an end-lap of 150mm, sealing the seams with a 50mm roller.
4. Vertical surfaces must be primed, and the AVCL can be applied as separate strips, applying pressure with a 50mm roller.
5. FIX-R AVCL must be protected from UV within 3 weeks of installation.

## STORAGE

Store rolls in a vertical position protected from sunlight, rainfall/snow and heat. Protect against frost. The product is best used within 12 months.

TECHNICAL DATA FIX-R AVCL

TECHNICAL PARAMETERS	VALUE	TEST STANDARD	HARMONISED STANDARD
Length	22m +1%	EN1849-1	EN 13970
Width	915mm (minimum)	EN1849-1	
Thickness	0.6mm	EN1849-1	
Tensile Strength			
Longitudinal	≥ 710 N/50mm	EN 29073-3	
Transverse	≥ 600 N/50mm		
Elongation			
Longitudinal	>5%	EN 12311	
Transverse	>5%		
Watertightness	Pass	EN 1928	
Water vapour transmission	>1700 m	EN 1931	
Flexibility at low temperature	≤-20°C	EN 1109	
Durability against ageing	Pass	EN 1296	
		EN 1931	
Joint Shear resistance	≥ 400 N/50mm	EN 12317-1	
Impact Resistance	Pass	EN 12691	
Resistance to tearing			
Longitudinal	≥190 N	EN 12310-1	
Transverse	≥190 N		
Peel Resistance of Joint	≥ 50 N/50mm	EN 12317-1	
Flow resistance at elevated temperature	≥ 90 OC	EN 1110:2010	
Reaction for Fire	NPD	EN 13501-1	
Durability against chemicals	NPD	Annex C	

NPD = No Performance Declared

FIX-R  
AVCL PRIMER

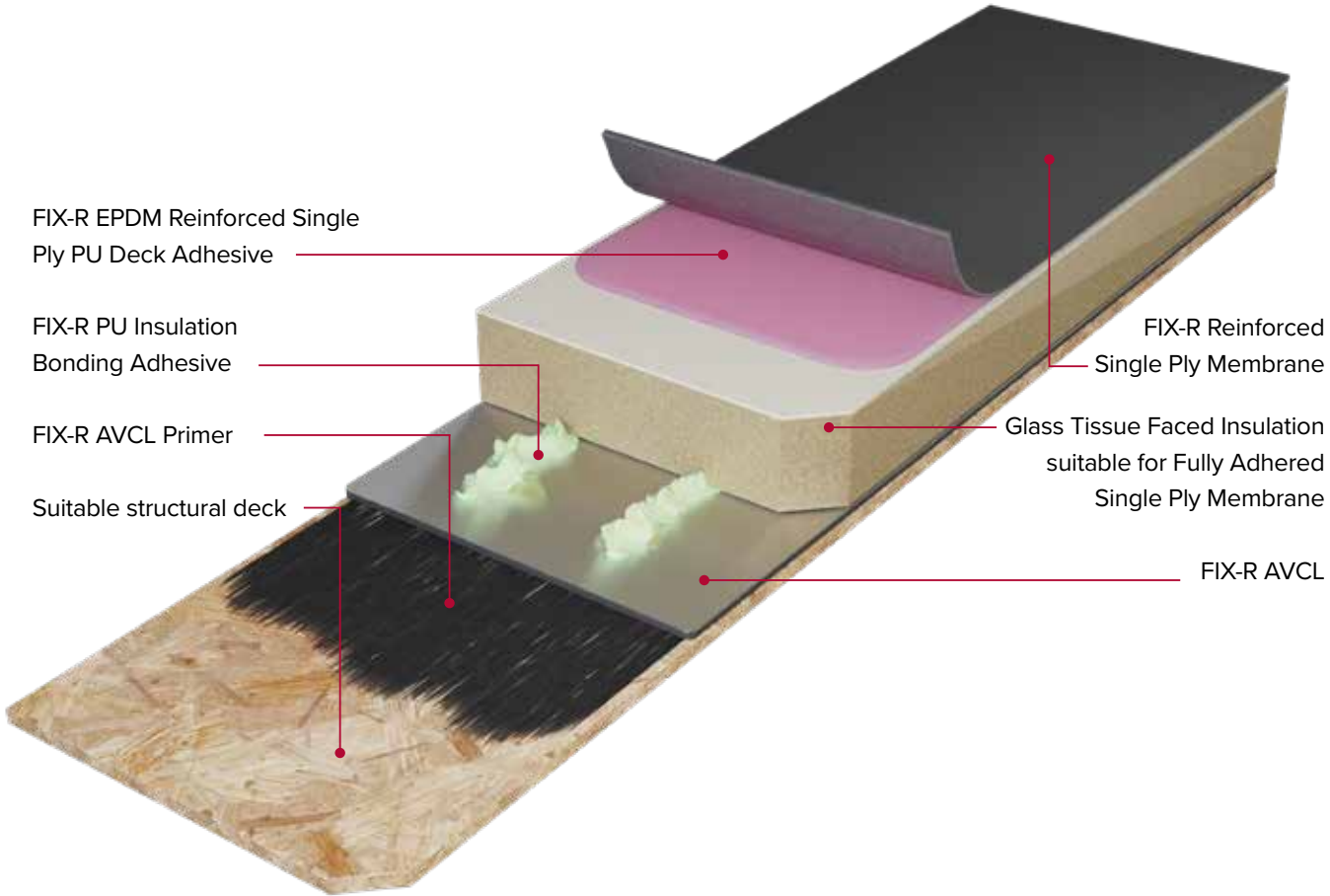
FIX-R AVCL Primer is available in 5.4L and 15L tins for roller application.

FIX-R AVCL Primer will improve adhesion generally, and enhance adhesion at the lower application temperature range. It is required on all porous and vertical substrates.

Primer Option	Coverage/Litre
FIX-R AVCL Primer	Up to 4m <sup>2</sup> /Litre

Safety Data Sheets for the AVCL Primers are available on request.

EXAMPLE ROOF BUILD UP FOR FIX-R REINFORCED SINGLE PLY





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