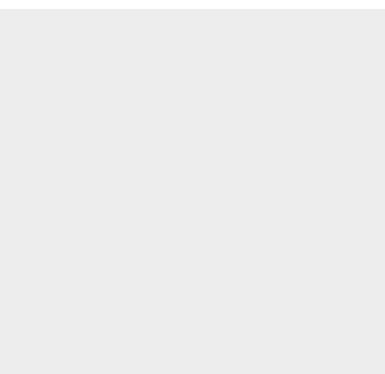


Liquid 10 System



Product Selector & Quick Installation Guide

The FIX-R Classic Liquid 10 system is a collection of 6 polyurethane based products designed to protect flat roofing surfaces. Warranties of up to 10 years are available.

FIX-R Classic Liquid 10

FIX-R Classic Liquid 10 is a single component rapid curing polyurethane liquid membrane that is easy to apply over existing roofing systems, creating a durable and seamless waterproof layer.

Its formulation allows a fast curing, bubble free, single coat application roofing system to be created. Due to its excellent tensile strength, there is usually no need to incorporate a reinforcing fabric, making application a breeze.

**LIQUID 10**

Recommended for Waterproofing and Protection of:

- Asphalt and Bitumen Roofs
- EPDM membranes
- GRP Roofing Systems
- Metal and cement fibre roof sheets
- Gypsum and cement boards
- Concrete roofs
- OSB3 T&G Structural Roof Decks

Features and Benefits:

- Fast curing
- Bubble free smooth finish
- Excellent weather and UV resistance
- Will remain elastic even down to -40 degrees centigrade
- Will not soften in high temperatures
- High tensile and tear strength, excellent abrasion resistance

Application Procedure

Surface Preparation & Priming

Clean the surface to be treated with a high pressure washer or a stiff broom and soapy water to remove all oil, grease, wax contaminants, cement laitance and loose particles.

FIX-R Classic Primer 10 must be applied to all surfaces prior to the application of the waterproofing membrane. Make good all cracks and blisters and fill surface irregularities with a suitable product. Allow to fully dry. Apply Primer 10 at a sufficient coverage rate to seal the surface. Primer coverage rates will vary dependant on surface porosity. Allow primer coat to fully dry.

Any gaps in the substrate over 2mm wide or movement joints must first be filled with FIX-R Classic JointSeal 10 prior to the application of the FIX-R Classic Fibred 10.

If the membrane is to be installed over timber decks, OSB3 T&G 18mm must be used. The T&G joints must first be "glued" together by applying JointsSeal 10 into the rebate. Boards are then pushed together and surplus JointSeal 10 tooled smooth. The joints must then be reinforced by applying a 100mm (minimum) strip of Fibred 10 onto the primed surface at a rate of 1ltr per m² minimum. It is recommended to create a fillet or cant strip using JointSeal 10 at the base of all upstands.

Application of Membrane

Use a low speed (300rpm) mixer. Mix thoroughly taking care not to introduce air into the liquid, creating bubbles.

It is recommended that all detail and perimeter works are carried out before the main field areas. On vertical surfaces, internal/external corner details and outlets/pipe collars, Fibred 10 should be used at approximately 1kg per m² as this product is thixotropic so will not sag.

Liquid 10 must be applied over this detail at approximately 1kg per m². Apply the material with a roller, brush or squeegee in one or two coats, ensuring that you achieve a bubble free and even application. Do not exceed 48 hours between coats as this will affect inter-coat adhesion.

Surfaces that have exceeded 48 hours between coats will need to be primed with Primer 10 to ensure a proper bond to the previous coat.

Coverage Rates

Minimum total consumption must be at least 1.5kg per m².

Suggestion: If the area to be treated is substantial, it is good practice to grid out the roof to ensure that the recommended coverage rates per m² are achieved.

Cleaning

Clean tools and equipment initially with paper towels and then a suitable solvent.

Roller heads will not be re-useable.

Limitations

All substrates must be sound, clean and any bubbles and blisters must be made good before work commences. Liquid 10 cannot be used in areas where the system may come into contact with chemically treated water such as swimming pools. It is not safe for fish ponds.

Packaging

Available in 15kg metal drums.

Designed to protect flat roofing surfaces



FIX-R Classic Fibred 10

FIX-R Classic Fibred 10 is a thixotropic, fibre reinforced, single component, polyurethane liquid membrane. Due to its unique formulation, it cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties.



FIBRED 10

The reinforcing fibres within the product enable the applicator to form complex weathering details without the need to cut and shape sheet reinforcing material. Due to its thixotropic properties it is less prone to sagging when applied to vertical surfaces.

Fibred 10 is easily applied with a brush or roller.

Recommended for:

- Internal and external corner details as a reinforcing detail
- Detailing around pipes and flashings as reinforcing detail
- Reinforcing of joints in OSB Decking or approved insulation boards
- Application into concrete gutters
- Ideal for vertical up stand work as less prone to sagging
- Deck/ wall interface reinforcement

Features & Benefits:

- No additional reinforcement necessary
 - Fast Curing - skins over in 2-3 hours
 - Thixotropic - less prone to sagging and slump
 - Bubble and defect free membrane
 - Excellent weather and UV resistance
 - Excellent thermal resistance - the product never turns soft
- Recommended service temperatures 80°C, maximum shock temperature 200°C*
- Remains elastic down to -40°C
 - Excellent mechanical properties, high tensile and good tear strength, high abrasion resistance
 - Good chemical resistance

Application Procedure

It is essential that the intended substrate is thoroughly cleaned with a high pressure washer, on smaller areas a stiff broom and soapy water will suffice. Remove all oil, grease and wax contaminants, cement laitance and loose particles.

Make good all cracks and blisters and fill surface irregularities with a suitable product. Allow to fully dry.

Apply FIX-R Classic Primer 10 at a sufficient coverage rate to seal the surface. Primer coverage rates will vary dependant on surface porosity. Allow the primer coat to fully dry.

Coverage Rates

As a stand-alone coating the minimum coverage rate is 1.8kg/m². As a joint reinforcing or detailing membrane the minimum coverage rate is 1.0kg/m². Fibred 10 must be over coated with Liquid 10 within 48 hours or further application of Primer 10 will be required.

Cleaning

Clean tools and equipment initially with paper towels and then with a suitable solvent.

Roller heads will not be re-useable.

Packaging

Available in 5kg and 15kg re-sealable metal drums.

Once opened, use as soon as possible.

Designed to protect flat roofing surfaces



FIX-R Classic JointSeal 10

JOINTSEAL 10



FIX-R Classic JointSeal 10 is a novel low modulus expansion joint sealant, especially formulated to contain both PU and Silylated-PU technology, thus giving rise to a sealant which includes the best of both technologies. It has been modified in order to give enhanced thixotropic properties.

JointSeal 10 cures by reaction with atmospheric humidity to produce a joint sealant with a 50% joint movement accommodation factor and excellent adhesion on substrates, traditionally problematic for PU sealants such as glass, aluminium, steel, polycarbonate, etc.

JointSeal 10 is easy to apply even in very low temperatures and the storage stability is unlike any polyurethane sealant in the market.

Recommended for Sealing Joints in:

- In situ Concrete
- Expansion concrete plates
- Precast panels
- Brick and block work
- Water tanks
- Metal frames
- Aluminium windows and panels
- Water tanks and swimming pools
- Sealing between T&G joints in OSB3 T&G structural roof decks

Features & Benefits:

- Excellent adhesion to almost any surface
- Excellent extrusion, tooling and storage stability over a wide range of climatic conditions
- Excellent chemical resistance, suitable for sealing joints in swimming pools and chemically treated water
- Low modulus, joint movement accommodation 50%
- Microorganism and fungus resistant
- Application underwater immersion possible
- Excellent resistance to heat >600°C and will remain flexible down to -400°C

Application Procedure

Clean the joint thoroughly and ensure that no oil, grease, silicone or wax contaminants are present. For most applications primer is not required unless onto a very porous or friable surface. If primer is required, use FIX-R Classic Primer 10. Bond area surfaces thoroughly to avoid the possibility of air bubbles being blown into the uncured product should the substrate temperature rise. On applications where the depth of the expansion joint exceeds the width, then it is necessary to use an open cell polyurethane backing rod (of suitable size) to ensure a firm backing to the JointSeal 10 against which it can be tooled off.

Slide the 600cc foil cartridge into the application gun, cut off the very end of the sealant packaging and fit the gun with the nozzle that has been cut to deliver the right bead size for the given application.

Extrude the JointSeal 10 into the joint ensuring that no air is trapped in the joint. Wide joints may well require more than one pass of the application gun to ensure full contact of the JointSeal 10 with the sides and bottom of the joint. Tooling of the JointSeal 10 is recommended immediately after application of the sealant to ensure that all air bubbles are excluded and a smooth finish provided, if other products are being applied over.

Limitations

Not recommended for direct application to unsound substrates.

If in doubt, prime with FIX-R Classic Primer 10.

Packaging

Available as a 600cc Sausage.

Designed to protect flat roofing surfaces



FIX-R Classic Primer 10

PRIMER 10

FIX-R Classic Primer 10 is a single component polyurethane primer suitable for most substrates. It can be used on both porous and non-porous substrates and must be used prior to the application of FIX-R Classic Liquid 10.

It is characterised by its very low viscosity and balanced curing speed which results in excellent wetting, penetration and paint over time on all substrates. Additionally, it can be used on dry concrete, not only as a primer but also as a low cost sealing solution onto that substrate.

Recommended for Use as a Primer Over:

- Asphalt
- Built up felt
- Ceramic tiles
- OSB Decking and all other timber surfaces
- Recovery Boards
- GRP Metal

Primer 10 may be used as a "reactivation primer" over FIX-R Classic Liquid 10 and FIX-R Classic Fibred 10 if these products require over coating after the 48 hours cure time has been exceeded. It may also be used as a sealer over concrete and brick.

Features & Benefits:

- Single component (no additional accelerator to add)
- Low viscosity
- Easy to apply by brush or roller
- Excellent wetting, penetration and drying time
- Elastic

Application Procedure

It is essential that the intended substrate is thoroughly cleaned with a high pressure washer; on smaller areas a stiff broom and soapy water and rinse will suffice. Remove all oil, grease and wax contaminants, cement laitance and loose particles. Make good all cracks and blisters and fill surface irregularities with a suitable product. Allow to fully dry.

Apply Primer 10 at a sufficient coverage rate to seal the surface. Primer coverage rates will vary dependant on the surface porosity. Allow the primer coat to fully dry (approximately 2 hours but this is dependent on ambient air temperature and humidity).

Coverage Rates

Approximately 0.1-0.3 ltrs/m² dependant on the porosity of the substrate. For semi-porous substrates the coverage rate is typically 0.2ltrs/m².

Cleaning

Clean tools and equipment initially with paper towels and then with a suitable solvent.

Rollers and paint brushes will not be re-useable.

Limitations

Product will discolour if used as an exposed sealer. This is purely visual and does not affect the performance of the membrane. If the primed surface has been rained on then the area must be dried and further primer applied.

Packaging

Available in 4ltr tins.

Designed to protect flat roofing surfaces



FIX-R Classic Traffic 10

FIX-R Classic Traffic 10 is a single component, moisture curing, polyurethane liquid. It can be used in conjunction with Quartz Aggregate (0.4-0.8mm) to create a hard wearing slip resistant coating over many surfaces.

TRAFFIC 10

Traffic 10 is easily applied by brush, roller or airless sprayer and will dry in 6-8 hours.

Recommended for Creating a Hardwearing surface over:

- FIX-R Classic Liquid 10 roofing system, for balconies and walkways
- Asphalt or bitumen roofs*
- Concrete surfaces, even garage floors*
- GRP Roof lights*
- GRC Tiles*
- Concrete Pavers*

*FIX-R Classic Primer 10 required.

Features and Benefits:

- Strong and uniform adhesion on almost any surface
- Highly hydrophobic
- Highly flexible even down to -40°C
- Excellent heat and UV resistance, will not peel, yellow or soften up to +80°C
- Outstanding resistance to chemicals and mechanical stresses
- Can be pigmented

Application Procedure

Surface Preparation & Priming

Clean the surface to be treated with a high pressure washer or a stiff broom and soapy water to remove all oil, grease, wax contaminants, cement laitance and loose particles. Apply FIX-R Classic Primer 10 as directed on the data sheet if required.

Application

Stir product thoroughly with a low speed mixer or manually, ensuring that air is not mixed into the liquid creating bubbles. Surfaces must be completely dry before product application.

As a Non-slip Walkway

Apply a light base coat by brush or roller to the prepared substrate (approximately 0.1ltr/m²) and whilst still wet, broadcast Quartz Aggregate at the desired coverage rate, then allow to dry. Brush off any excess Quartz Aggregate and apply a further light saturation coat to seal. Alternatively Quartz Aggregate can be mixed into the container of Traffic 10 and applied directly to the prepared surface by brush or roller.

If applying over FIX-R Classic Liquid 10 please allow a minimum of 72 hours to ensure full polymerisation has occurred before application. No primer is required for this application.

Liquid 10 can be used to colour Traffic 10 but at no more than a 20% ratio.
Colour pastes are available in a range of colours if required.

Coverage Rates

Subject to substrate porosity and application: 0.1- 0.5ltr/m².

(The coverage rate is approximate and is dependent on quantity of Quartz used.)

Cleaning

Clean tools and equipment initially with paper towels and then with a suitable solvent.

Roller heads will not be re-useable.

Limitations

Not recommended for unsound substrates. If Traffic 10 is used over Liquid 10 only apply after a minimum of 72 hours, to allow full polymerisation. Traffic 10 must not be applied in thick coats.

Packaging

Available in 4ltr tins.

Designed to protect flat roofing surfaces



FIX-R Classic Liquid 10 Thixo

FIX-R Classic Liquid 10 Thixo is a unique additive developed to solve application difficulties of FIX-R Classic Liquid 10 in severely inclined, uneven or completely vertical substrates.

The recommended addition ratio is 10-30% by weight, depending on the surface inclination, substrate condition and desired final consumption.



Features & Benefits:

Liquid 10 Thixo is available in 1kg plastic sausages that allows for easy addition into Liquid 10 without significant loss of product.

Liquid 10 Thixo greatly enhances the thixotropic properties of the Liquid 10 without affecting its final viscosity.

Recommended for:

Increasing the thixotropic nature (reducing the self-levelling characteristics) of Liquid 10.

For example:

- Waterproofing of vertical flashing details on a roof. Usually these points need several coats of Liquid 10 in order to achieve the minimum film thickness. By using Liquid 10 Thixo, the application on these points can be done in 1-2 coats maximum.
- Waterproofing and protection of a roof where the substrate is very uneven and it may be difficult to achieve a uniform thickness of the membrane. By using Liquid 10 Thixo you can modify the rheology of the Liquid 10 so that all areas are covered at a uniform consumption.
- Waterproofing and protection of corrugated metal roofs. Once again this application may prove difficult using self-levelling products as you will have uneven consumption of material. By using Liquid 10 Thixo you can modify the rheology of the Liquid 10 so that all areas are covered at a uniform consumption.

Application Procedure

Open the can of Liquid 10 and mix thoroughly before adding the Liquid 10 Thixo. Open the sausage of Liquid 10 Thixo and empty the desired amount by hand into the pail (left over material can be sealed and stored for later use).

The addition of Liquid 10 Thixo depends on the specific project requirements, but the recommended amount is 10-30% by weight.

Mix the Liquid 10 Thixo gradually into the Liquid 10 using a low speed mixer, being careful not to introduce air into the mixture, until the required thickness is achieved. Apply the thoroughly mixed material to the previously primed substrate as described in the technical data sheet.

Packaging

Available in 1kg sausages.

Designed to protect flat roofing surfaces





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