

fatra

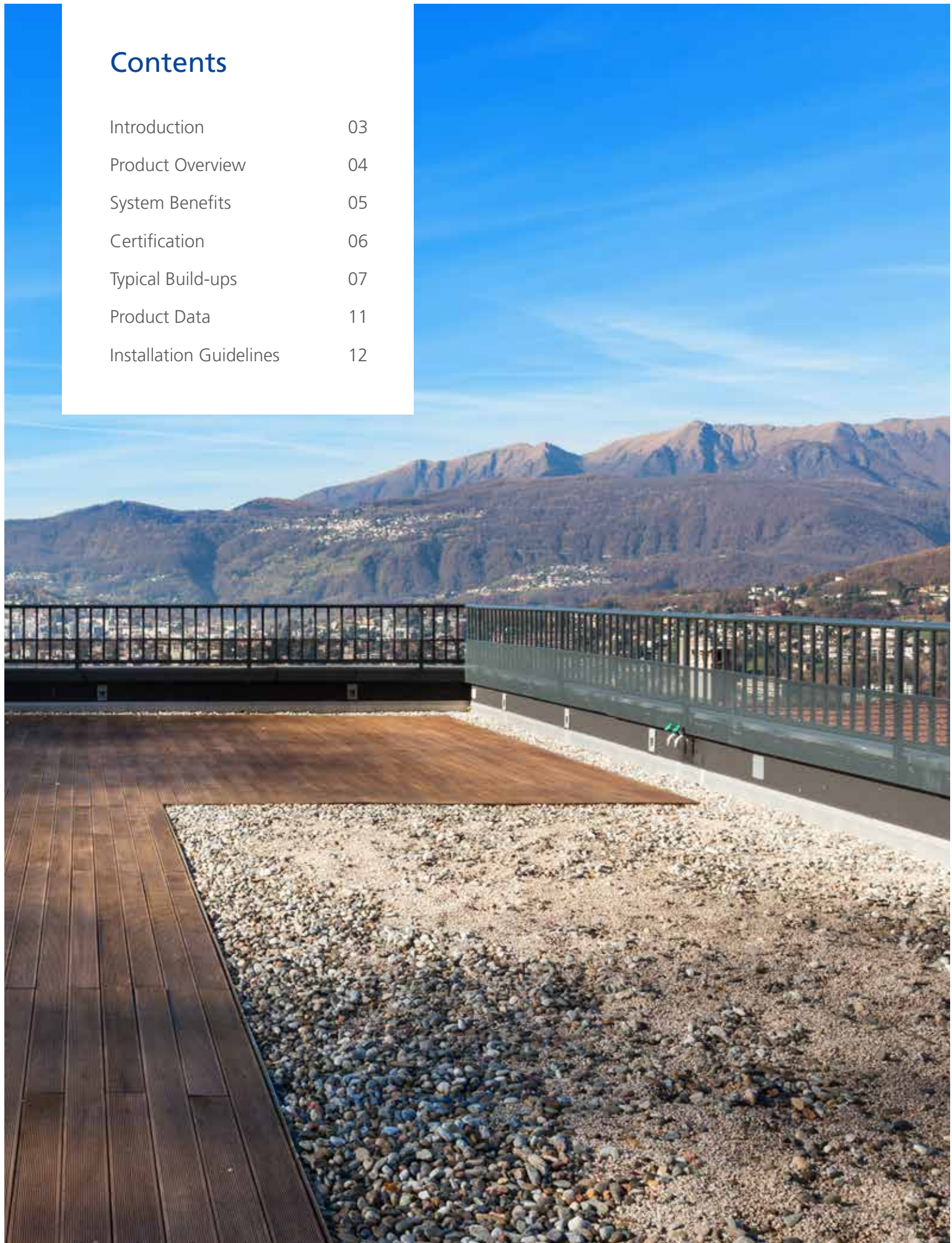


Environmental waterproofing solutions

Fatra UK Ltd
Liquid Applied Waterproofing System

Contents

Introduction	03
Product Overview	04
System Benefits	05
Certification	06
Typical Build-ups	07
Product Data	11
Installation Guidelines	12



Introduction

Products

Fatra UK Ltd provide a broad range of roof waterproofing solutions for new build and refurbishment projects to suit the specific design requirements of our clients.

This manual is intended to provide technical information on the following products from our range of liquid applied waterproofing systems:

- FLS 101 Same day primer
- FLS 102 Next day primer
- FLS 103 PVC primer
- FLS 104 Fast-curing liquid waterproofing
- FLS 105 Accelerator
- FLS 106 Liquid waterproofing
- FLS 107 Reinforced detailing liquid
- FLS 108 Joint sealant
- FLS 109 Self-adhesive butyl tape
- FLS 110 Geotextile reinforcement
- FLS 111 Thickening agent
- FLS 112 Clear sealcoat

Licensed Contractors

Fatra UK Ltd products are only installed by a network of licensed roofing contractors. The licensed roofing contractors have undergone rigorous training on the application of our products and receive continued support and inspection by our Field Services Technicians to ensure the highest of standards are maintained.

Main Contractors

Fatra UK Ltd provide support to main contractors' pre-construction teams in providing value engineered solutions and budget costs along with design solutions to their design teams. Our Field Service Technicians provide training and support, including tool box talks on the applications of our products to package managers along with assistance in Quality Test & Inspection plans.

Architects & Designers

Fatra UK Ltd provide technical advice and support to Architects and Designers on the application of our products including project specific AutoCAD drawings, NBS specifications, thermal calculations, wind load fixing calculations, condensation risk calculations and rainwater outlet calculations. All technical assistance and advice provided is covered by our £5m PI insurance.

Building Surveyors

Fatra provide advice and support on refurbishment projects by providing solutions to existing roofs that have either failed or have come to the end of their serviceable life.

Product Overview

Fatra's liquid applied waterproofing system is a cold applied waterproofing system suitable for a wide range of applications, substrates and finishes providing an uninterrupted seamless finish to deliver a long lasting cost effective waterproofing solution for both new build and existing roof refurbishment projects.



The Fatra liquid applied waterproofing system is a single component, unreinforced, polyurethane liquid waterproofing coating that contains a humidity activated technology to provide a highly elastic and hydrophobic membrane.

Due to the unique formulation, the Fatra liquid system cures to form seamless membrane with excellent mechanical and chemical properties including high tensile strength, shear resistance, abrasion resistance and exceptional adhesion properties.

The Fatra liquid system is compatible with a large range of accessories and components providing a complete weatherproofing solution to a wide range of applications.

Fatra liquid applied waterproofing system is the ideal weatherproofing product for the following applications:

- New & existing roofs
- Inverted roofs
- Warm roofs
- Balconies & terraces
- Podiums
- Green roofs
- Felt / asphalt roof overlays
- Gutter refurbishment
- Detailing of awkward junctions
- Roof junctions

Fatra liquid applied waterproofing system can be used on the following substrates / existing roof finishes:

- Concrete
- Timber
- Metal decks
- Plywood / OSB3
- Asphalt
- Bituminous felt
- PVC / TPO membrane
- Insulation

System Benefits

Speed of installation

Fatra liquid applied waterproofing system is a seamless system and therefore can be applied to upstands and perimeter details first, allowing follow on trades such as rendering, glazing or cladding to commence whilst the main area is either being worked on or used as a storage area. This provides great advantages to the construction build programme and negates the need for expensive temporary protection to the main roof covering.

Long life

25 year working life expectancy.

Guarantees

20 year product guarantee.

Forms a waterproof & seamless membrane

Fatra's liquid applied waterproofing system is a seamless waterproofing solution formulated to provide a homogeneous waterproof layer.

Single component & fast curing

Unlike multi-layered systems, the Fatra liquid applied waterproofing system reduces both system price and labour costs. Used in conjunction with fast curing primers and with the added benefit of the humidity activated technology incorporated within the product, installation times are reduced leading to water tightness at an early stage in the process.

Reduces project time: no mixing, simple installation

The Fatra liquid applied waterproofing system is a single layer, unreinforced liquid applied coating system. This helps to reduce the installation time when compared with multi-layered systems. The system does not require the mixing of multiple components or multi-layer build ups and is simple to apply with a roller or brush. This not only allows for fast application, it also helps to eliminate the risk of errors caused by incorrect mixing ratios.



Certification

Fatra’s liquid applied waterproofing system is the result of extensive research and development. When installed in accordance with Fatra UK Ltd specification and project specific details by a Fatra UK Ltd accredited installer, the product will be provided with a 20 year product guarantee.

Fatra cold applied liquid has been tested in accordance with the following:

- CE Certification which includes an expected performance of 25 years
- ISO 9001 & 14001 accreditation
- Fire rating EN 13501-5:2016 of B_{ROOF} (t1)
- BS 7976-2:2002+A1:2013 Pendulum Slip Test: Low risk potential
- BBA Certification: Agrément Certificate 19/5702



Guarantee

Fatra’s liquid applied waterproofing system is supplied and installed through a network of trained, qualified and competent roofing contractors. During the installation process Fatra Field Services Technicians will carry out routine inspections to ensure that the materials are being installed in accordance with the Fatra recommendations, project specific details and in accordance with the specification.

Upon completion of the project, a Fatra Field Technician will carry out a final inspection of the works.

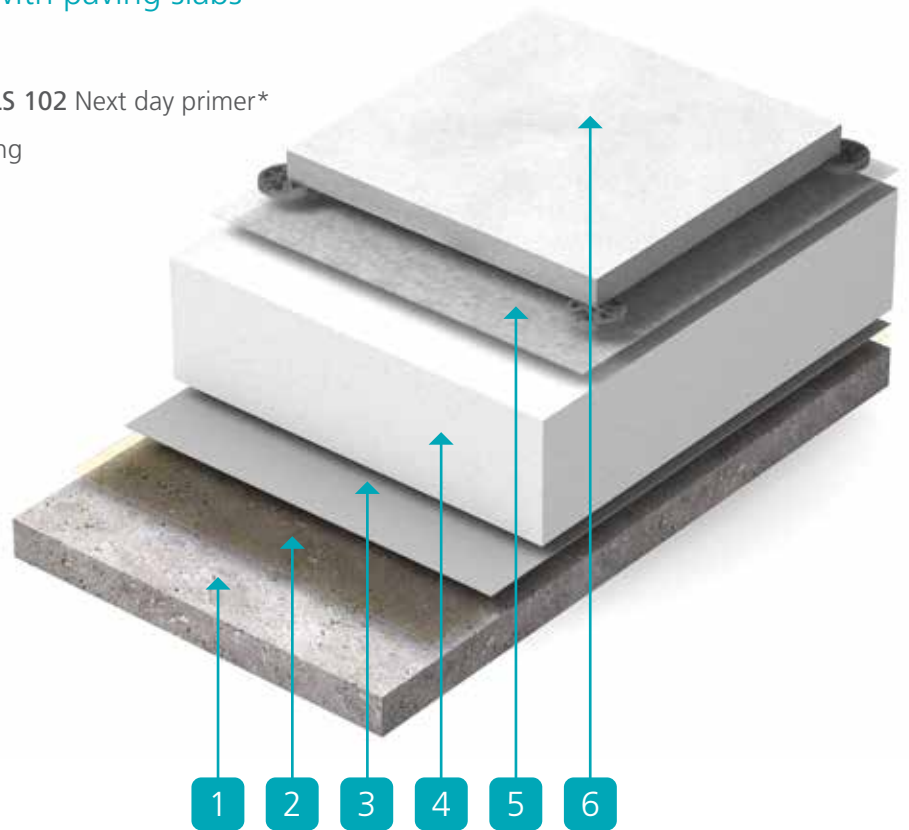
Once the correct installation of the required products has been signed off, the contractor can then request a guarantee from Fatra by completing and returning the ‘Application for Warranty’ form.



Typical Build-up

Inverted roof application with paving slabs

1. Concrete substrate
2. FLS 101 Same day primer or FLS 102 Next day primer*
3. FLS Liquid applied waterproofing
4. EPS / XPS Insulation
5. Water management layer
6. Paving slabs on support feet



*The primer type will depend on the project size and substrate type

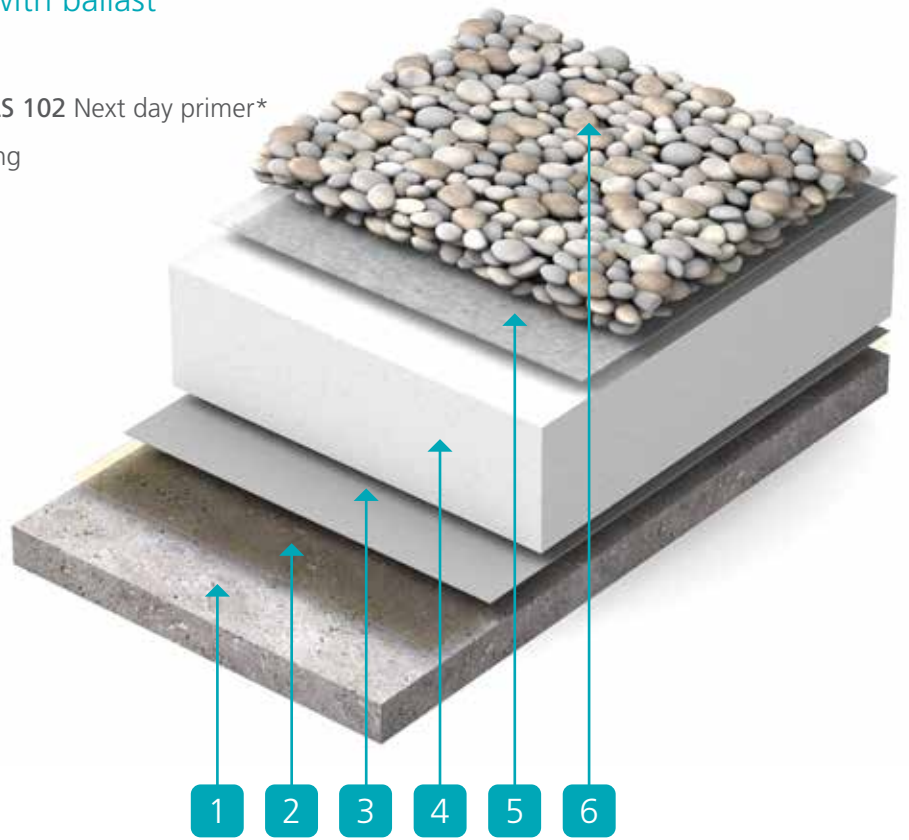
Please refer to 'Installation guidelines' on page 12 for further details including recommended coverage rates.



Typical Build-up

Inverted roof application with ballast

1. Concrete substrate
2. FLS 101 Same day primer or FLS 102 Next day primer*
3. FLS Liquid applied waterproofing
4. EPS / XPS Insulation
5. Water management layer
6. Pebble ballast



*The primer type will depend on the project size and substrate type

Please refer to 'Installation guidelines' on page 12 for further details including recommended coverage rates.



Typical Build-up

Inverted roof application with sedum

1. Concrete substrate
2. FLS 101 Same day primer or FLS 102 Next day primer*
3. FLS Liquid applied waterproofing
4. EPS / XPS Insulation
5. Water management layer
6. Sedum build-up



*The primer type will depend on the project size and substrate type

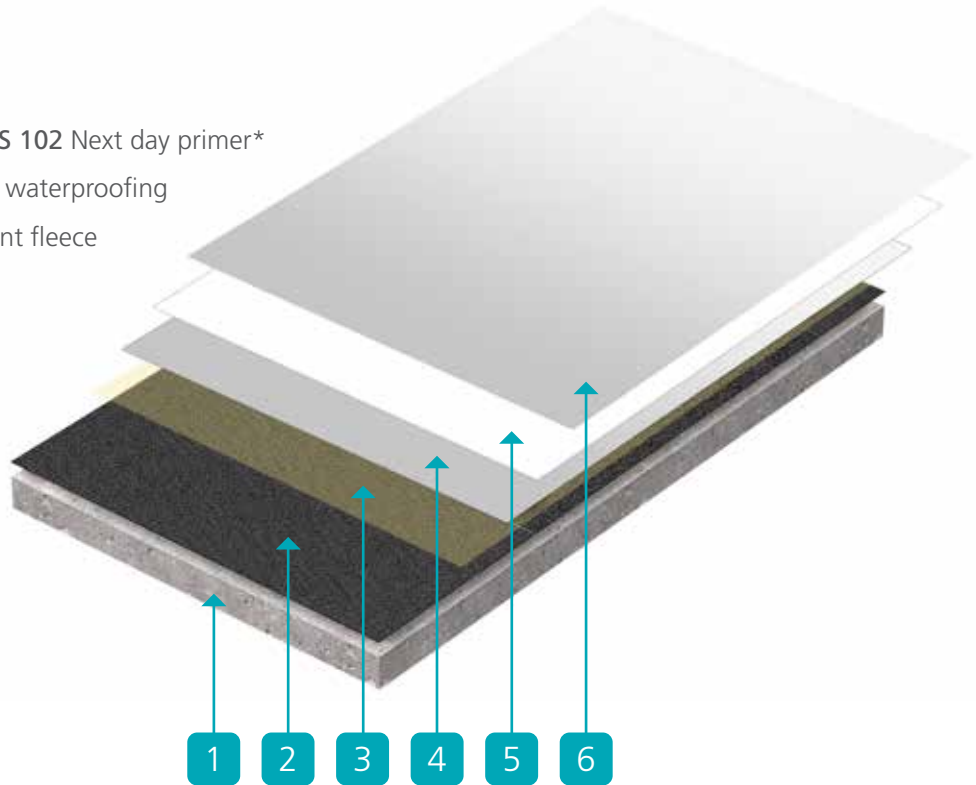
Please refer to 'Installation guidelines' on page 12 for further details including recommended coverage rates.



Typical Build-up

Felt roof overlay

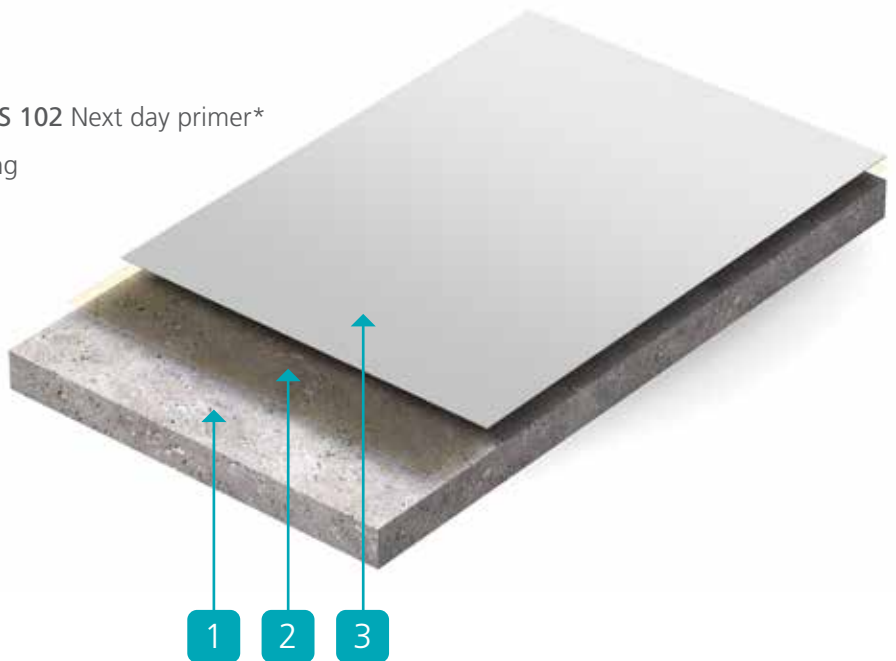
1. Concrete substrate
2. Existing bitumen felt roof
3. FLS 101 Same day primer or FLS 102 Next day primer*
4. Receiver coat of FLS 104 Liquid waterproofing
5. FLS 108 Geotextile reinforcement fleece embedded into receiver coat
6. Top coat of FLS 104 Liquid waterproofing



Typical Build-up

Cold roof application

1. Concrete substrate
2. FLS 101 Same day primer or FLS 102 Next day primer*
3. FLS Liquid applied waterproofing



*The primer type will depend on the project size and substrate type

Please refer to 'Installation guidelines' on page 12 for further details including recommended coverage rates.

Product Data

The following tables give a general guide to product codes, approximate coverage rates and quantities of the individual components used within the Fatra liquid applied waterproofing system.

For further information please refer to the specific product data sheets and material safety data sheets.

Code	Description	Quantity	Consumption	Coverage Rate
FLS 101	Same day primer	4 litre tin	200 g per m ²	20 m ²
FLS 102	Next day primer	5 litre tin	200 g per m ²	25 m ²
FLS 103	PVC primer	5 litre tin	100 g per m ²	50 m ²
FLS 104	Fast-curing liquid waterproofing	25 kg	1.5 kg per m ²	16.67 m ²
FLS 105	Accelerator	1 litre	1 litre per 25 kg with FLS 104	16.67 m ²
FLS 106	Liquid waterproofing	6 kg / 25 kg tin	1.5 kg per m ²	4 m ² / 10 m ²
FLS 107	Reinforced detailing liquid	5 kg / 15 kg tin	1.5 kg per m ²	2.78 m ² / 8.33 m ²
FLS 108	Joint sealant	600 cc foil	W x D / Vol.	6 linear m. per foil based on a 10 mm x 10 mm joint
FLS 109	Self-adhesive butyl tape	1	n/a	10 m x 100 mm
FLS 110	Geotextile reinforcement fleece	1.06 m x 100 m roll	106 m ² per roll	106 m ²
FLS 111	Thickening agent (for upstands)	1 kg	0.45 kg per m ²	Mix 10% to 30% with FLS 104
FLS 112	Clear sealcoat	4 litre tin	200 g per m ²	10 m ² based on 2 coats
FLS 113	Applicator gun	1	n/a	n/a
FLS 114	Velour gelcoat roller (150 mm) (Frame + roller)	1	n/a	n/a
FLS 115	Roller refill (150mm)	1	n/a	n/a
FLS 116	Velour gelcoat roller (250 mm) (Frame + roller)	1	n/a	n/a
FLS 117	Roller refill (250 mm)	1	n/a	n/a
FLS 118	Wooden brush (50 mm)	1	n/a	n/a
FLS 119	Pin rake (600 mm)	1	n/a	n/a
FLS 120	Roller bucket (5 litre)	1	n/a	n/a
FLS 121	Disposable latex gloves	100	n/a	n/a

Coverage based on minimum consumption rates.

Consumption rates may vary according to the condition of the substrate.

Installation guidelines

The general sequence of works for Fatra Liquid Applied Waterproofing is as below:

Preparation ► Joint sealant ► Primer ► Reinforcement ► Waterproofing

Surface cleaning & preparation

Ensure all surfaces are clean, dry and free from any debris, dust and dirt. Where possible pressure wash and scrub the surface to remove any built up dirt. This will help to ensure a clean surface and a good bond.

If chemicals are used during the cleaning phase, ensure the roof is washed thoroughly with clean water prior to the application of any product. This is to avoid a chemical reaction of the product. Some surfaces may need to be carefully cleaned with a solvent and wiped down. It is necessary for the solvent to evaporate to leave a dry, clean surface.

All surfaces must be completely dry before any application takes place. Ensure all screws and nail holes or any other blemishes to the substrate, including construction joints are filled with **FLS 108 Joint sealant**.

It is the roofing contractor's responsibility to ensure that the substrate is sound and fit for purpose prior to the installation of the Fatra liquid applied waterproofing system.



Application of FLS 108 Joint sealant

Prior to the application of the primer and liquid system, it is necessary to treat all construction joints and details with **FLS 108 Joint sealant**.

FLS 108 is a low modulus expansion joint sealant, specially formulated to contain both polyurethane and silylated polyurethane technology, thus providing a sealant which includes the best of both technologies. It has also been modified in order to give enhanced thixotropic properties.

FLS 108 cures by reaction with the atmospheric humidity to produce a joint sealant with a 50% joint movement accommodation factor and excellent adhesion on substrates traditionally problematic for PU sealants, e.g. glass, aluminium, steel, polycarbonate, etc.

FLS 108 is supplied in a 600 cc foil and should be applied with an appropriate applicator gun. A fillet should be created with **FLS 108 Joint sealant** on all physical changes of direction of the liquid, including upstands, rooflights, pipe work and construction joints.

For large voids and joints apply a backing rod or closed cell polyethylene foam as it is important to ensure that the correct width to depth ratio is achieved. The ratio of width to depth should be 1:1 subject to a minimum depth of 10 mm.

Tooling of **FLS 108 Joint sealant** is recommended immediately after its application.

Primers

A range of primers are available to complement the Fatra liquid applied waterproofing system.

FLS primers are one component, polyurethane based primers suitable for a wide range of substrates. They can be used successfully on porous or non-porous substrates. The primers are characterised by their very low viscosity and balanced curing speed which result in excellent wetting, impregnation and paint-over time on all substrates, whether of high, low or no porosity.

Additionally, they can be effectively used on concrete, not only as a primer but also as a low-cost sealing solution, increasing the durability of the substrate. **FLS primers** can be applied with a brush or roller and must be applied evenly, ensuring that ponding does not occur in low areas.

FLS 101 Same day primer

FLS 101 is the recommended primer for small projects where the entire area can be primed and waterproofed in one day.

- **FLS 101** should be applied by brush or roller at a consumption rate of 200 grams per m².
- Allow **2 to 4 hours** to cure.
- The primer is cured when completely dry. Once cured, the top coating can be applied. It is essential that the **FLS 101** is completely dry prior to application of the top coating.

The waterproof coating must be applied to the **FLS 101** Same day primer on the same day of application of the primer. If the open time is exceeded, the product must be re-applied and allowed to dry before continuing, paying close attention to the points above.

If it rains or the roof gets wet before **FLS 101** has cured or before the waterproof coating has been applied, the roof must be dried and primer re-applied.

FLS 102 Next day primer

FLS 102 is the recommended primer for larger areas where the intention is to apply the liquid waterproofing the following day.

- **FLS 102** should be applied by brush or roller at a consumption rate of 200 grams per m².
- Allow **24 hours** to cure.
- The primer is cured when completely dry. Once cured, the top coating can be applied.

FLS 102 has a 5 day open time. If this is exceeded, the product must be reapplied and allowed to dry before continuing, paying close attention to the points above.

If it rains or the roof gets wet before **FLS 102** has cured, the roof must be dried and primer re-applied. If it rains before the waterproof coating has been applied, the roof must be towel dried prior to the application of the waterproof coating.

FLS 103 PVC primer

FLS 103 is designed to clean and prime existing and new PVC membranes prior to the application of the liquid waterproofing.

- **FLS 103** should be applied by brush or roller at a consumption rate of 100 grams per m².
- The main coat may be applied as soon as the primer is no longer tacky (approximately 15 to 30 minutes).

If it rains or the roof gets wet before **FLS 103** has cured, the roof must be dried and primer re-applied.

Consideration should be given to the curing times of the primers and liquid waterproofing. Avoid applying the Fatra liquid waterproofing late on in the afternoon as the dew point can affect un-polymerised material.

Reinforcement to details

Once the primer has cured and the surface is clean and dry, all joints, upstands, corners and details should be reinforced using either **FLS 109 Self-adhesive butyl tape** or **FLS 110 Geotextile reinforcement fleece**, 'wet on wet' with **FLS Liquid waterproofing**.

FLS 109 Self-adhesive butyl tape is a 10 m x 100 mm tape and is backed with a pre-cut release film for ease of application.

When using **FLS 110 Geotextile Reinforcement Fleece**, the fleece should be embedded in an initial coat of **FLS** applied at 0.5 kg per m², followed by a secondary coat applied at 1.0 kg per m².

Alternatively, for difficult or awkward areas where the tape or geotextile is difficult to install, use **FLS 107 Detailing liquid** at a rate of 1.8 kg per m².

(If FLS 107 is being used for the upstand waterproofing, there is no need for additional reinforcement.)



FLS 107 Reinforced detailing liquid

FLS 107 Reinforced detailing liquid is a thixotropic, fibre reinforced, one component polyurethane liquid membrane waterproofing. Recommended uses include upstands up to 200mm high, flashings, gutter refurbishments, detailing of plant and awkward penetrations. It can also be used to reinforce joints, upstands, corners and details prior to application of **FLS Liquid waterproofing**.

- Apply with a brush at a minimum consumption rate of 1.8 kg per m².
- Brush in one direction only to achieve uniform distribution of the fibre reinforcement.



Waterproofing

The FLS range of liquid applied waterproofing consists of 2 options for the waterproofing top coat. The product selected depends upon the application, substrate, project size & required finish. Please contact Fatra UK Ltd for further details.

The waterproofing top coat options are:

FLS Rapid BBA Certified solution for commercial projects

FLS Shield ISO & CE Certified solution for commercial or domestic projects

FLS Rapid

FLS 104 Fast-curing liquid waterproofing is the primary component in the FLS-Rapid range of Fatra liquid applied waterproofing products.



FLS Rapid: BBA, ISO & CE Certified solution for commercial or domestic projects

FLS 104 Fast-curing liquid waterproofing, used in conjunction with **FLS 105** Accelerator, is a single application, liquid applied polyurethane based waterproofing membrane. It cures with the humidity in the atmosphere to produce a strong, elastic membrane with excellent adhesion to many types of surfaces. **FLS 104** is based on a pure elastomeric hydrophobic polyurethane resin with special inorganic fillers resulting in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

FLS 104 Fast-curing liquid waterproofing

Tin size	25 kg
Consumption	1.5 kg per m ²
Coverage rate	Approximately 16.67 m ² per 25 kg tin (Subject to substrate condition and porosity)
Tack free time (with accelerator)	Allow 1 hour
Curing time (with accelerator)	Allow 2 to 3 hours
Shelf life	Store in dry & cool place at 5°C to 25°C, for up to 12 months from production date. Once opened use as soon as possible.

Application

Ensure all surfaces are clean, dry and free from any debris, dust, dirt, loose particles, or standing water. Clean the surface using a high pressure washer, if possible.

Treat all construction joints, details and surface irregularities with FLS 108 Joint sealant and apply the appropriate primer.

Pour 1 litre of FLS 105 Accelerator into the 25kg tin of FLS 104 and mix thoroughly using a low speed electric mixer and apply immediately. Apply with a brush, roller or pin rake at a minimum consumption rate of 1.5 kg/m².

FLS Shield

FLS 106 is the primary component in the FLS-Shield range of Fatra liquid applied waterproofing products.



FLS Shield: ISO & CE Certified solution for commercial or domestic projects

FLS 106 Liquid waterproofing is a high performance, single component, liquid applied polyurethane based waterproofing membrane that utilises a humidity activated technology. It cures with reaction to atmospheric humidity to form a highly elastic and extremely hydrophobic membrane with excellent mechanical and chemical properties. Due to its excellent adhesion to several types of substrates and its resistance to UV and weathering, FLS 106 is an ideal solution for many types of waterproofing application

FLS 106 Liquid waterproofing	
Tin size	6 kg / 15 kg
Consumption	1.5 kg per m ²
Coverage rate	Approximately 4 m ² per 6 kg tin / 10 m ² per 15 kg tin (Subject to substrate condition and porosity)
Tack free time	Allow 4 to 6 hours
Recoat time	Allow 24 to 48 hours (Re-priming will be required after 48 hours)
Shelf life	Store in dry & cool place at 5°C to 25°C, for up to 12 months from production date. Once opened use as soon as possible.

Application

Ensure all surfaces are clean, dry and free from any debris, dust, dirt, loose particles, or standing water. Clean the surface using a high pressure washer, if possible.

Treat all construction joints, details and surface irregularities with FLS 108 Joint sealant and apply the appropriate primer.

Stir well before use. Use a low speed (300rpm) mixer. FLS 106 Liquid waterproofing should be applied with a brush, roller or pin rake at a minimum consumption rate of 1.5 kg/m².

FLS 111 Thickening agent for use with FLS 104 / 106

FLS 111 Thickening agent is a unique additive designed to solve application difficulties when applying Fatra liquid applied waterproof coatings to severely inclined, uneven or completely vertical substrates.

Application of FLS 111 Thickening agent

Open the can of FLS 104 / 106 and stir thoroughly before adding FLS 111 Thickening agent. Open the can of FLS 111 Thickening agent and empty the desired amount by hand into the 104 / 106 (left over material can be sealed and stored for later use). Mix with an electric paddle for a minimum of 5 minutes, on a slow speed to avoid aeration of the product. Apply the final material as normal.

The quantity of FLS 111 Thickening agent depends on specific project requirements, but the recommended amount is between 10% and 30%. For vertical upstands, use 30% FLS 111, e.g. 1.5 kg for every 5 kg of FLS 104 /106.

Roof build-ups

Inverted / ballasted roofs

Once the **FLS Liquid waterproofing** has cured for 72 hours, a suitable insulation can be laid. Typically a closed cell extruded or expanded polystyrene will be used below a water management filter layer and pebble ballast / paving slabs.

Bitumen roof overlays

On an existing bitumen felt roof, the entire surface must be reinforced using **FLS 110** Geotextile reinforcement fleece, 'wet on wet' with **FLS Liquid waterproofing**. Apply a receiver coat of **FLS Liquid waterproofing** to a clean, dry surface with rollers or brush at a rate of 1.0 kg per m² and embed **FLS 110** Geotextile reinforcement fleece into this layer. Use a separate, dry roller to embed the fleece. The receiver coat should become visible through the fleece during application.

Next apply a top coat of **FLS Liquid waterproofing** with rollers or brush at a rate of 1.0 kg to 1.5 kg per m² for total encapsulation. The reinforcement fleece should not be visible after applying this coat. Overall total consumption should be 2.0 kg to 2.5 kg per m². Throughout this process, the reinforcement fleece must overlap by a minimum of 100 mm.

Single ply membrane roof overlays

Ensure the existing roof surface is clean and dry prior to the application of any liquid waterproofing products. Apply **FLS 103 PVC primer** to the membrane using a brush or roller at a maximum consumption rate of 200 grams per m². Any construction joints or roof penetrations should be reinforced using **FLS 107 Reinforced Detailing Liquid** at a rate of 1.8 kg per m². This does not include changes in direction of the membrane, or existing membrane dressed upstands / details where the membrane forms a continuous surface. Finish by applying **FLS Liquid waterproofing** at a rate of 1.5 kg to 1.8 kg per m².

Existing gutter overlays

Use **FLS 108 Joint sealant** to treat any changes of direction, joints, splits, cracks and screw holes in the substrate. Any joints in the gutter wider than 5 mm can be reinforced with **FLS 109 Self-adhesive butyl tape**. After the appropriate primer has been applied and allowed to cure, a coat of **FLS 107 Detailing liquid** can be applied to the entire gutter area at a rate of 1.8 kg per m².

Warm roofs

FLS Liquid waterproofing can be applied to a warm roof build-up (substrate, vapour control layer and insulation) if a suitable carrier membrane is installed above the insulation. Fatra recommend their **FF816 Self-adhesive VCL**. Upon installation of the carrier membrane, the area can then be primed and waterproofed using the standard methods i.e. Joint sealant • Primer* • Reinforcement • Waterproofing
(***FLS 103 PVC primer** should be used on the FF816 carrier membrane)

Plywood deck

FLS Liquid waterproofing can be applied directly to a plywood deck. Use **FLS 108 Joint sealant** to treat any splits, cracks and screw holes in the substrate, and to create a fillet if required at any upstands. Once the deck has been primed, all joints in the plywood should be dressed with **FLS 109 Self-adhesive butyl tape**. The area can then be waterproofed using the standard installation methods.



Surface finishes

Application of FLS 112 Clear sealcoat with aggregate for a non-slip finish or walkway

If required, the Fatra liquid applied waterproofing system can be finished with a slip-resistant walkway by using a suitable aggregate in conjunction with an additional clear liquid coating. A variety of colours and finishes are available. Please consult the Fatra Technical Office for more information.



Once the **FLS Liquid waterproofing** has cured for 72 hours apply a coat of **FLS 112 Clear sealcoat** at a rate of 200 grams per m² (depending on the size of the aggregate). If a walkway is required, mask off the required areas.

Broadcast the aggregate into the coat of **FLS 112** and allow to dry for 24 hours. Typically a 0.7mm to 1.2mm quartz aggregate will be used, at a rate of approximately 1.0 kg per m². Brush or vacuum the excess aggregate from the surface and apply a further coat of **FLS 112 Clear sealcoat** at a rate of 200 grams per m² (depending on the size of the aggregate).



Under **BS 7976-2:2002+A1:2013's Pendulum Test** assessment of slip resistance, FLS Liquid waterproofing combined with a quartz or granite aggregate achieved an overall classification of Low Slip Potential, or a slip risk of ≥ 1 in 1,000,000 users.

A 0.7mm to 1.2mm quartz aggregate, and a 1.0mm to 3.0mm granite aggregate were tested. Full test documentation is available upon request from Fatra UK Ltd.

Application of FLS 112 Clear sealcoat with pigment for a non-standard colour finish

Fatra liquid applied waterproofing is supplied in a standard finish of light grey (RAL 7040).

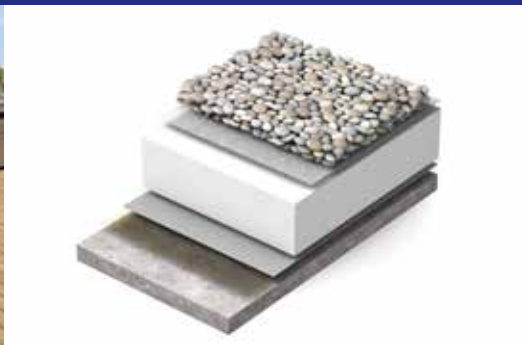
If an alternative colour is required, the system can be finished with a pigmented sealcoat.

Consult Fatra UK Ltd for advice on a suitable pigment. Shake the pigment container and apply the pigment directly to the **FLS 112 Clear sealcoat** at a rate of approximately 5%. For example, use 1 litre of pigment for every 20 litres of **FLS 109**. Stir the pigment into the sealcoat and apply the resulting mixture at a rate of 400 grams per m².

**Mix a maximum of 10% pigment into the sealcoat.*

[To find out more about Fatra products](#)

Call us on **029 2048 7954** Email sales@fatra.co.uk or visit fatra.co.uk



Environmental waterproofing solutions

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Printed with vegetable-based inks on recycled paper, FSC certified.