



SR20 – Multi-Surface Roofing System

15 / 20-YEAR Guarantee* | BROOF(t4) | BBA APPROVED

System Overview

SR20 is Smart Roofer's high-performance, liquid Rubber-applied multi-surface roofing system. Designed for versatility, durability, and certified long-term protection, SR20 is ideal for overlaying a wide range of roofing substrates across commercial and industrial environments.

SR20 is fully BBA approved, fire rated to Broof(t4), and offers a seamless, fast-curing finish with minimal disruption.

Key Features

- 20-Year Product Guarantee*
- Rainfall immediately after application has no adverse effect
- BBA Certified System (pending)
- Fire Rated to Broof(t4) EN 13501-5
- Suitable for Felt, Asphalt, GRP, Bitumen – Multiple Primers Available for Different Surfaces
- Cold-Applied – No Hot Works
- Ideal for Commercial & Industrial Roofs
- Low Odour, Fast Curing
- Seamless Finish & Fully Bonded

NOTE: THIS IS AN OUTLINE SPECIFICATION FOR GENERAL APPLICATION OF THIS SYSTEM. FOR A BESPOKE SPECIFICATION TO DEAL WITH SITE COMPLEXITIES, PLEASE CONTACT OUR TECHNICIANS: 02394 004092

Technical Specifications

- Coverage: Approx. 1m² per kg
- Application Temperature: 5°C to 35°C
- Rainproof: 30 minutes
- Full Cure: 24 hours
- Colour: **Basecoat** – Light Grey, **Topcoat** - Dark Grey

- Shelf Life: 24 months
- Storage: Cool, dry, frost-free environment

Certified Installers

Installing contractor must be fully certified & trained in the use of the SR20 system.

Installation Recommendations

A built-up roof system for overlaying existing warm or cold roofs.

Flat Roofs, Pitched Roofs, Weathered Asphalt and Bituminous Surfaces, Concrete, Brickwork, Fibreglass and GRP, Felted Surfaces, Asbestos Cladding, Sheeting, Metal (Galvanised, Ferrous and Non-Ferrous), and Old Lead, Previously Painted Surfaces* and Weathered Single-Ply membranes including EPDM* PVC*, HYPALON*, TPO ROOF MEMBRANES* and PLASTISOL COATED SUBSTRATES*. *Adhesion/pull off test required.

Not for use on Walkways, Balconies, tanking, fish and aquatic ponds, new lead, slate or internal use. We do not guarantee on part roof repairs and stand-alone gutters.

Substrate Preparation

Clean the surface with a power wash of up to 2,000 psi, depending on the substrate.

If needed clean the area with Fungicidal Wash. This eliminates all moss/algae. The wash must be applied and left on the substrate for 7 days, then washed off prior to the application.

The substrate must be dried off using squeegees/rags. Gas guns should not be used.

Once the substrate is clean and dry you can then begin the application.

Substrate Repair

Repair faults in the surface by using a high-quality waterproof mastic/filler.

Apply SR20 system to repaired areas incorporating the Reinforcing Scrim overlapping by 5cm.

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Substrate Quality

Cementitious substrates

New concrete should be cured for at least 28 days* and should have a pull off strength 1.5 N/mm². Inspect the concrete, including upstands, all areas should be hammer tested. Concrete must be suitably finished, preferably by wood float or steel pan. A power float finish is acceptable where the surface is prepared to avoid laitance (a tamped finish is not acceptable). The surface finish must be uniform and free from defects such as laitance, voids or honeycombing. The substrate must be of a suitable quality and condition to receive the system. Please refer to our Technical Department for further details.

Brick and stone

Bricks, blocks and mortar joints must be sound and preferably flush pointed.

Slates, tiles, etc.

Ensure all slates/tiles are sound and securely fastened, replacing obviously broken or missing sections

Asphalt

Asphalt contains volatiles which can cause bleeding and slight non-detrimental staining. The asphalt must be carefully assessed for moisture and/or air entrapment, grade and surface finish prior to any coating works being carried out

Bituminous felt

Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate. Bituminous felt should not contain any badly degraded areas.

Single ply

Single ply membranes must be correctly laid and securely fixed/adhered. Badly cracked or brittle membranes should be removed.

Bituminous coatings

Bituminous coatings should not have sticky or mobile surfaces, volatile mastic coatings, or old coal tar coatings.

Metals

Metals must be in sound condition

Timber substrates

Timber and timber-based panel roof decks are to be well constructed, in good condition, firmly adhered, and with sufficient fixings for the nature and location of the site

Paints/Coatings

Ensure the existing material is sound and firmly adhered.

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General Installation

Installation must not be carried out during inclement weather (eg rain, fog or snow). When the temperature is below 5°C, suitable precautions against surface condensation on the substrate must be taken.

Substrates to which the system is to be applied must be sound, dry, clean and free from sharp projections such as nail heads and concrete nibs. Britannia's advice should be sought for suitable cleaning procedures and the use of a proprietary surface cleaner/fungicidal wash.

Previously coated areas must be checked for integrity and adequate adhesion to the substrate. Defects such as cracks and blisters must be repaired prior to application of the system in accordance with Britannia's instructions.

Adhesion checks should be carried out to ensure that the system is compatible with the existing surfaces and to determine the necessity for a primer.

Expansion or construction joints must be additionally reinforced prior to the application of the main waterproofing layer in accordance with Britannia's instructions.

Detailing, such as at upstands and penetrations, must be carried out in accordance with Smart Roofers instructions.

It is the contractor's responsibility to inspect each section of the application to ensure the correct measures and steps outlined in this specification document are applied.

PRIMING

ALL ROOF SUBSTRATES REQUIRE PRIMING PRIOR TO OVERCOATING WITH THE SR20 SYSTEM.

These surfaces should be cleaned prior to applying SR20 Waterproofing System.

See Primer Guide for the following substrates:

Highly porous/friable surfaces, Felted surfaces, Concrete and asbestos cladding, and sheeting should be primed with SR20 Primer (see separate technical data sheet).

Fibrous concrete corrugated sheeting: two coats of SR20 Primer must always be applied to this substrate.

Concrete and masonry prime with SR20 Primer.

OSB/Plywood and Wooden Substrates OSB/Plywood, wooden substrates and insulation board must be treated with a 50mm wide strip of SR Bandage Tape.

A continuous surface should be created before commencing with the application of SR20 Primer (see separate technical data sheet).

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Weathered Single-Ply Membranes EPDM, PVC, HYPALON, TPO ROOF MEMBRANES and PLASTISOL COATED SUBSTRATES, See Priming Chart on Page 5.

Weathered asphalt and Bituminous surfaces Prime with SR20 Primer.

Note: discoloration may occur over a new asphalt, tar or bitumen surface. An extra coat may therefore be required for decorative purposes only.

Metal & all ferrous metals should be primed with SR20 Metal Primer (see separate technical data sheet).

Old lead requires no primer required on sheet/valleys. DO NOT USE ON NEW LEAD.

GRP must be primed with our SR 20 primer before application of SR20 Waterproofing System

IT IS GOOD PRACTICE TO INSPECT AND CARRY OUT ADHESION TESTS ON MEMBRANES INCORPORATING PRIMER, SR 20 WATERPROOFING SYSTEM. BEFORE STARTING WORK.

Scrim Application

Apply Reinforcing Scrim to all areas which can be ponded.

Reinforcing Scrim must be used on all upstands, curves, skylight bases and rainwater outlets.

Reinforcing Scrim to be used on all gutter expansion joints.

Reinforcing Scrim to be used on all repaired areas. Fibrous corrugated concrete sheeting and skylight surrounds

Apply to both horizontal and vertical laps including around ALL fixings. Before starting, carefully tighten any fixings that may be loose.

When reinforcing the horizontal laps, ensure the reinforcement follows the profile of the sheet exactly, eliminating any possibility of air pockets being trapped under the reinforcement.

Any cracking within the sheets should also be reinforced.

Finish with an additional coat of Polyshield over the scrimmed area.

Reinforcing Scrim is embedded into the wet SR20 basecoat avoiding creasing. Adjacent lengths of the reinforcement must overlap by 75mm. Finish with one coat of SR20 topcoat at the recommended rates.

Coating Application

STIR WELL BEFORE USE, DO NOT THIN

To a dry and cleaned surface:

SR20 Basecoat is applied by brush or roller to the clean prepared and primed substrate at a minimum of 1 litre per square meter.

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SR20 Reinforcing Scrim (100gm²) is embedded into the wet SR20 Basecoat avoiding creasing. Adjacent lengths of the reinforcement must overlap by a minimum of 75mm ensuring that there is sufficient coating to fully encapsulate the lap.

SR20 Topcoat is then applied by brush or roller over the dry, clean SR20 reinforced Basecoat at a minimum of 0.75 litres per square meter.

At each stage a check must be made for the presence of pinholes and missed areas, which can be rectified by applying additional coating as necessary.

Application rates for different substrate types are given in the table below.

The substrate and ambient temperature for the application of the system must be between 2°C and 35°C.

DO NOT APPLY to frozen or damp surfaces. DO NOT APPLY in hot direct sunlight or coating may skin.

Spreading rate unreinforced over metal: 0.8 litres per square meter (includes both coats).

Drying Time

SR20 PRIMER

SR20 Primer can take up to 2/4 hours to cure but can be over coated when dry.

SR20 BASECOAT

Surfaces must be COMPLETELY DRY prior to application of SR20 Basecoat.

Up to 8 hours or overnight depending on temperature and conditions.

SR20 TOPCOAT

Surfaces must be COMPLETELY DRY prior to application of SR20 Topcoat.

Up to 8 hours or overnight depending on temperature and conditions.

Full cure: up to 7 days.

The product may remain slightly soft for a further period depending on climatic conditions, this is not detrimental to the waterproofing qualities of the product.

Water Repellency

Rainfall after application has no adverse effect.

Equipment Care

For Cleaning Equipment use white spirit.

PRIMER CHART

Substrate	SR20 PRIMER	SR20 Zinc Phosphate Metal Primer	SR201 Pack Etching Primer	SR20 Universal QD Primer-Sealer
POROUS AND FRIABLE				
Felted Surfaces	✓			
Asbestos Cement	✓			
Concrete	✓			
Weathered Asphalt and Bituminous Surfaces	✓			
OSB/PLYWOOD AND WOODEN SUBSTRATES				
Timber Decks	✓			
Plywood	✓			
METALS				
Ferrous		✓		
Galvanised Metal			✓	
NON-FERROUS METALS				
Lead (not to be used on new lead)				
Aluminium			✓	
Copper			✓	
SINGLE PLY MEMBRANES				
EPDM*	✓			
PVC*				✓
HYPALON*				✓
TPO ROOF MEMBRANES*				✓
PLASTISOL COATED SUBSTRATES*				✓
OTHERS				
Fibreglass and GRP	✓			
Previously painted or coated substrates*	✓			

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IT IS GOOD PRACTICE TO INSPECT AND CARRY OUT ADHESION TESTS INCORPORATING THE PRIMER AND POLYSHIELD. BEFORE STARTING WORK, PLEASE SEE THE SEPARATE ADHESION TEST DOCUMENT ON OUR WEBSITE.

***Adhesion/pull off test required**

Precautions

Flammable keep away from sources of ignition.

Ensure good ventilation during application.

Wear gloves, goggles and suitable protective clothing.

In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

Remove splashes from the skin with a recognized hand cleaner or plenty of soap and water.

Keep out of reach of children.

Do not use near fishponds.

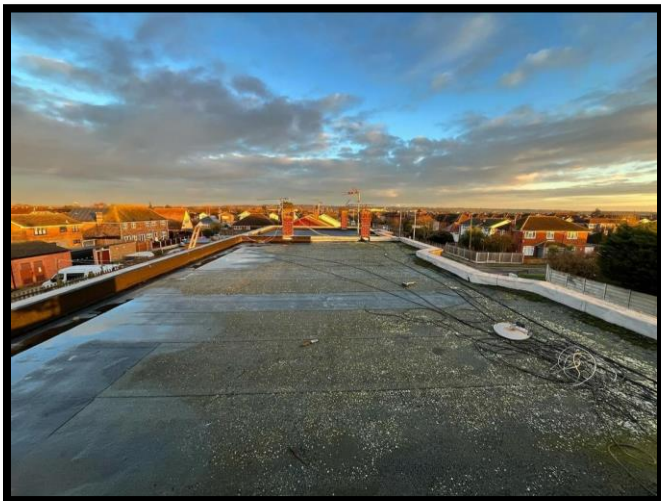
Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environments.

Do not empty into drains.

Safety

Good working practice should be followed and safety/ walking boards should be utilized where required.

Before & After SR20 Multi-Surface Waterproofing System



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Important notes on application and limitation

SR20 is not recommended for the treatment of fish or aquatic ponds or internal use.

Air conditioning vents should be sealed for a minimum of 24 hours during and after the application.

MINIMUM FINISHED FALL: when using this product it is important that a minimum finished fall of 1:80 is achieved, as stated in BS 6229:2018 (Code of Practice for the application of Liquid Applied Waterproofing Systems to flat roofs with continuously supported coverings).

Do not apply SR20 on substrates with rising moisture.

SR20 is not suitable for permanent water immersion.

Do not dilute SR20 with any solvent.

On substrates likely to exhibit outgassing, apply during Alling ambient and substrate temperatures. If applied during rising temperatures “pin holing” may occur from rising air.

Product should be used in conjunction with a safe system of work. Ensure an adequate assessment of all site risks has been conducted prior to work commencing. Refer to the product safety datasheet for further guidance.

Do not use SR20 for indoor applications

Do not apply close to the air intake vent of running air conditioning unit.

The product can be applied by brush or roller. Work well with a brush in difficult areas. Apply subsequent layers after the first layer has cured tack free.

Use strips of SR20 Reinforcing Scrim, in order to cover joints, connections or overlaps of bituminous sheets. Please ask our technical service department for detailed recommendations.

The suitability of each system to receive foot traffic varies. For specific recommendations, please contact our technical service department.

Do not apply adhesives or cementitious products (e.g. tile mortar) directly SR20.

Do not use grit salt and/or other de-icing agents between coats of SR20 as this may affect the cure and inter-coat adhesion of the product.

Whilst SR20 is resistant to most commonly encountered atmospheric pollutants, proprietary cleaning solutions and environmental spoilage, the suitability of the product for use in applications with increased chemical resistance requirements should first be established in consultation with our technical service department.

Maintenance And Repair

Roofs should be inspected at least annually in autumn after leaf fall to ensure vegetation and other debris is cleared from the roof and drainage outlets. Any damage to the system must be repaired as soon as possible to ensure that waterproofing integrity is maintained.

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Smart Roofer Services

Nationwide sales and technical personnel.

National Group of certified installers.

Product warranties for approved contractors.

General specification reports/assistance.

On-site advice/surveys and technical reports.

Training

We offer both onsite & offsite training for our Smart Roofer certified installer schemes for more details on our training programmes, please get in touch with a member of our sales team who will be happy to help.

Contact Us

For any information, please feel free to contact our team on either:

02394 004092

Or

Sales@smart-roofer.co.uk

Disclaimer: All products mentioned in this document must be installed in accordance with the relevant system specification and/or product data sheets. For any application outside the scope of these documents, please consult Smart Roofer LTD to determine suitability. For specifications/applications not approved in writing by Smart Roofer LTD will not be covered by any guarantee.

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