

DURASHIELD

SMOOTH, cold applied rubber based waterproofing system for a longer lasting seamless coating

A VERSATILE ROOF COATING

An **Advanced Single Coat**, **Primed Two Coat** Or A **Built Up System**

PERFORMANCE ADVANTAGES

- > **WHEN OPENED CAN BE RESEALED & USED AGAIN** 
- > **Easy To Use**
- > **One Pack, No Mixing**
- > **No Wastage**
- > **Advanced Single Coat with Great Flexibility**
- > **Up To 5 Year Life Expectancy As A Single Coat Over Primed Surfaces**
- > **10 Year Life Expectancy If Fully Scrimmed**
- > **British Made For Quality**

TESTS

Approvals/Standards:

- > External fire performance; BS 476-Part 3:2004 EXT.F.AC.

USES

ADVANCED SINGLE COAT

Ready for use on flat roofs, pitched roofs, weathered asphalt and bituminous surfaces, concrete, brickwork, GRP and fibreglass, felt, metal (galvanised and ferrous) and EPDM.

PRIMED TWO COAT

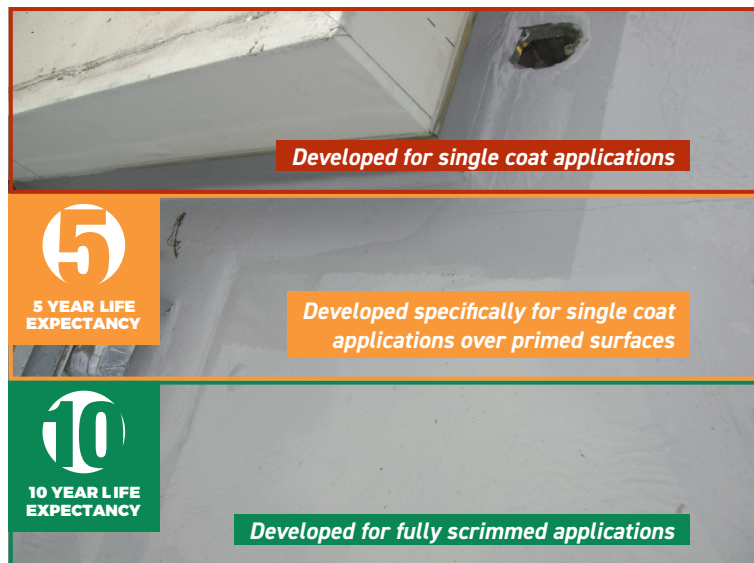
- > See Priming Chart on page 5 for surfaces that require a priming coat.

For use on Highly porous/friable surfaces such as Fibre Cement Corrugated Sheets, Porous Concrete, Porous Cement, Porous Weathered Asphalt and Bituminous Surfaces, Weathered Single Ply Membranes such as PVC, Hypalon and TPO and EPDM, Metal, Lead, Aluminium, Copper and Galvanised Steel.

FULLY BUILT UP SYSTEM

For use on All Above Substrates including OSB/Plywood and Wooden Substrates.

Not for use on gutters, tanking, fishponds, new lead, plastisol coated substrates or internal use. Do not use on NEW Bituminous Primers, Coatings or Surfaces.



COLOUR RANGE

- > Grey, Black and Solar Reflective White.
- Others colours to order.

PACK SIZE

- > 5 Litre, 13.5 Litre (15kg) and 20 Litre containers.

SPREADING RATE

- > Primers: See primer guide for coverage rates.
- > Single Coat Durashield and Primer Two Coat System at a minimum of 1litre per m².
- > Fully Scrimmed Durashield at a minimum of 1.5 litre per m².

DRYING TIME

- > Up to 8 hours or overnight depending on temperature and conditions.
- > Full cure up to 7 days.

WATER REPELLENCY

- > Light rainfall immediately after application has no adverse effect.

SHELF LIFE

- > Up to 2 years from date of manufacture if stored correctly in an unopened container.

PREPARATION FOR ALL COATINGS

Clear all areas of moss, lichen and debris by brushing or power washing and remove surface water and any contamination such as Oil or Grease and allow to dry. Apply Britannia Fungicidal Wash to prevent further fungal/algal growth.

- > **STIR WELL BEFORE USE.**
- > **DO NOT THIN.**
- > **DO NOT APPLY** to frozen or damp surfaces.
- > **DO NOT APPLY** in hot direct sunlight or coating may skin. Work away from the area immediately being applied and towards a suitable escape access. Do not walk on newly coated surface whilst application is in progress.
- > The substrate and ambient temperature for the application of the system must be between 5°C – 30°C.

Splits, cracks, joints and seals, crazed areas

Pay particular attention to clean out any splits/cracks/joints and seals by scraping or brushing off with a stiff bristle brush before applying the Britannia Durashield Primer. Repair all faults in the surface by using a proprietary filler.

Surface faults

Repair all faults in the surface with either Britannia's Reinforcing Scrim in the first of two coats or using a proprietary filler.

APPLICATION FOR ADVANCED SINGLE COAT

- > **FOLLOW PREPARATION FOR ALL COATINGS**
- > Ready for use on flat roofs, pitched roofs, weathered asphalt and bituminous surfaces, concrete, brickwork, GRP and fibreglass, felt, metal (galvanised and ferrous) and EPDM.

APPLICATION FOR PRIMED COATING

- > **FOLLOW PREPARATION FOR ALL COATINGS**
- > **PLEASE READ THE PRIMER GUIDE ON PAGE 3 AND APPLICATION GUIDE ON PAGE 4 PRIOR TO APPLICATION**

Highly Porous/Friable Surfaces

- > Felted surfaces, fibrous cement corrugated cladding, sheeting should be primed with Britannia Durashield FD Primer.

Fibrous cement corrugated sheeting: two coats of Durashield FD Primer must always be applied to this substrate.

Porous Concrete and Masonry

- > Prime with Britannia Durashield FD Primer

Porous Weathered Asphalt and Bituminous Surfaces

- > Prime with Britannia Durashield FD Primer.

Note: discolouration can occur over Weathered Asphalt or Bituminous Surfaces. An extra coat may therefore be required for decorative purposes.

DO NOT USE ON NEW BITUMINOUS PRIMERS/COATINGS OR SURFACES.

OSB/Plywood and Wooden Substrates

- > OSB/Plywood, wooden substrates and insulation boards must be primed with Britannia Durashield FD Primer and fully scrimmed with the built-up system.

Weathered Single-Ply Membranes*

EPDM, PVC, HYPALON AND TPO ROOF MEMBRANES

- > **EPDM MUST BE FULLY ADHERED TO THE SUBSTRATE PRIOR TO COATING. DO A TEST AREA FIRST OF ALL TO CHECK COMPATIBILITY.**
- > See Priming Chart on page 3.

Metal

- > All ferrous metals should be primed with Britannia Metal Primer (see separate technical data sheet).

Lead

- > No primer required on old lead, sheet/valleys.

DO NOT USE ON NEW LEAD.

Aluminium, Copper and Galvanised Steel

- > These should be primed with Britannia 1 Pack Etching Primer (see separate technical data sheet).

***IT IS GOOD PRACTICE TO INSPECT AND CARRY OUT ADHESION TESTS ON ANY EXISTING POROUS COATING OR SUBSTRATE PRIOR TO APPLICATION OF THE COATING.**

***Adhesion/pull off test required – See separate data sheet.**

- > **APPLY COATING AS PER APPLICATION GUIDE ON PAGE 4.**

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5 YEAR LIFE EXPECTANCY



Developed specifically for single coat applications over primed surfaces

APPLICATION OF FULLY SCRIMMED SYSTEM

- > **FOLLOW PREPARATION FOR ALL COATINGS**
- > **PLEASE READ THE PRIMER GUIDE ON PAGE 3 AND FULLY SCRIMMED APPLICATION ADVICE ON PAGE 5 PRIOR TO APPLICATION**

SCRIM AVAILABILITY

- > Various sizes available.

USEFUL SCRIM RECOMENDATION

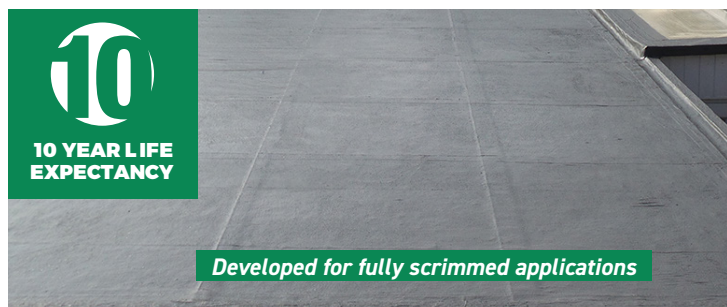
- > Apply Reinforcing Scrim to all areas which can be ponded.
- > Reinforcing Scrim must be used on all upstands, curves, skylight bases and rainwater outlets.
- > Reinforcing Scrim to be used on all repaired areas.

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 Durashield over the scrimmed area.

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10 YEAR LIFE EXPECTANCY



Developed for fully scrimmed applications

PRIMER GUIDE FOR DURASHIELD WATERPROOFING SYSTEM

Preparing the surface is an integral part of the process and that's why we have four separate primers, each aimed at a specific set of substrates to help achieve the optimum adhesion. All of the primers are single pack products that don't require mixing and can be applied by brush, roller or spray.

Ensure all areas to be primed are clean, dry and free from dust, dirt, corrosion and general surface contamination. All oils, grease, etc should be removed with a suitable degreasing solution.

DURASHIELD FAST DRYING PRIMER

Used for a wide range of substrates, the FD Primer helps to secure and stabilise highly friable/porous surfaces prior to the application of the Topcoat. Suitable Substrates: Felt, Asbestos Cement, Concrete, Weathered Asphalt, Bituminous Surfaces and EPDM, Timber Decks, Plywood.

UNIVERSAL QD PRIMER

Ideal for priming weathered single-ply roof membranes prior to the application of the Topcoat, helping to improve adhesion. Suitable Substrates: PVC, Hypalon, TPU Roof membranes and Plastisol coated surfaces.

*Prior to applying Universal QD Primer to the whole of the roof area, we recommend that an adhesion test is undertaken to determine whether good adhesion can be achieved.

METAL ETCH PRIMER

Helps to enhance adhesion to non-ferrous metals prior to the application of the Topcoat. Suitable Substrates: Aluminium, Copper and Galvanized steel surfaces.

ZINC PHOSPHATE METAL PRIMER

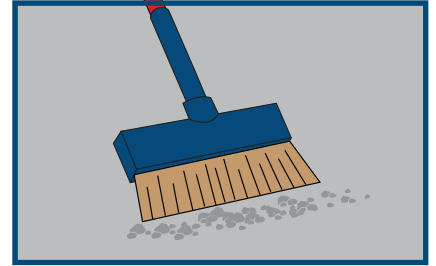
An Anti-corrosive Primer containing zinc phosphate for added protection. Helps to increase adhesion prior to the application of the Topcoat. Suitable Substrates: Iron and Steel Surfaces.

PRODUCT	DURASHIELD FD PRIMER	UNIVERSAL QD PRIMER	METAL ETCH PRIMER	ZINC PHOSPHATE METAL PRIMER
SUBSTRATES	Felted Surfaces Asbestos Cement Concrete Weathered Asphalt Timber Decks Plywood, EPDM*	PVC* Hypalon* TPO Roof Membranes* Plastisol Coated Substrates* (Not Gutters)	Galvanised Metal Aluminium Copper	Ferrous Metals
PACK SIZE	5L, 20L	5L	1L, 5L	1L, 5L
COVERAGE	3-5m ² /lt *10m ² /lt	10m ² /lt	10-13m ² /lt	13m ² /lt
TOUCH DRY	2-4 Hours	2-4 Hours	20 Minutes	30 Minutes
OVER COATING	2-4 Hours (When Dry)	2-4 Hours (When Dry)	Minimum 1 Hour Maximum 16 Hours	2 Hours
COLOUR	Clear	Amber/Brown	White	Off White

STANDARD APPLICATION ADVICE

STEP ONE

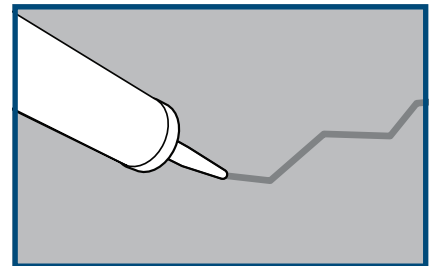
Ensure the substrate is clean, dry and free from any debris/contaminants.



Thoroughly clean surfaces

STEP TWO

Small repairs to the substrate should be carried out using a high quality roofing grade mastic/filler (non-silicone based).



Use mastic for any repairs

STEP THREE

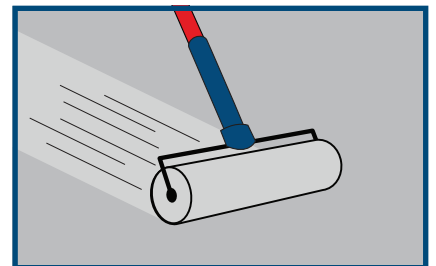
Apply appropriate Primer and allow to dry (drying time depending on temperature and conditions).

STEP FOUR

Stir the Durashield thoroughly whilst taking care not to introduce air into the mixture.

STEP FIVE

Apply the Durashield at a minimum rate of 1 litre/m².



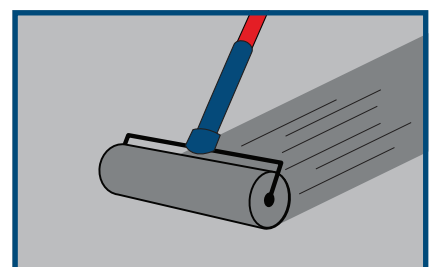
Apply Primer (if required)

STEP SIX

Drying time up to 8 hours or overnight depending on temperature and conditions.

STEP SEVEN

Full cure may take up to 7 days.



Apply 1 coat of Durashield

FULLY SCRIMMED APPLICATION ADVICE

STEP ONE

Ensure the substrate is clean, dry and free from any debris/contaminants.

STEP TWO

Small repairs to the substrate should be carried out using a high quality roofing grade mastic/filler (non-silicone based).

STEP THREE

Apply appropriate Primer and allow to dry (drying time depending on temperature and conditions).

STEP FOUR

Prepare Britannia reinforcing scrim accordingly in line with scrim instructions.

STEP FIVE

Stir the Durashield thoroughly.

STEP SIX

For all areas of reinforcement, apply Durashield at a minimum rate of 1 litre/m² as a base coat.

STEP SEVEN

Embed the scrim into the wet base coat, fully saturating the scrim until the Durashield draws through, you will notice the scrim becomes grey.

STEP EIGHT

When dry, apply a second coat of Durashield as a topcoat at a minimum rate of 0.5 litres/m² ensuring that the reinforcement scrim is completely encapsulated.

STEP NINE

Instant waterproof protection. Drying time up to 8 hours or overnight depending on temperature and conditions.

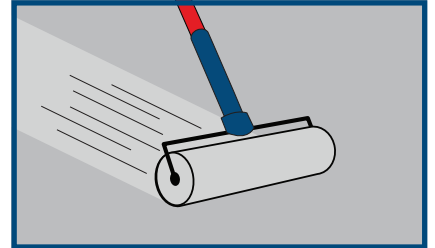
STEP TEN

Full cure may take up to 7 days.

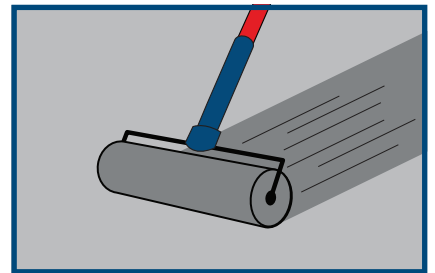
*** Remember - All reinforcing scrim must overlap by 50mm and avoid creasing. The whole area including trims must be coated to form a continuous seamless membrane.**



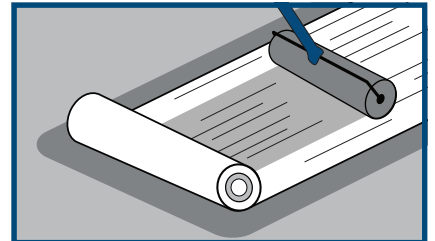
Thoroughly clean surfaces



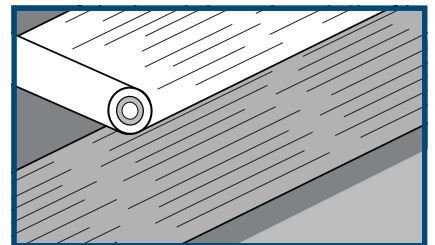
Apply Primer



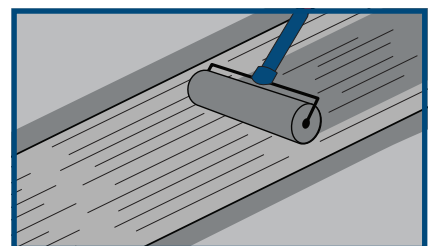
Apply 1 coat of Durashield



Embed scrim



Overlap scrim by 50mm



Add 2nd coat of Durashield

IMPORTANT

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

- > This coating is only valid for applications in the UK.
- > **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).**

CLEANING

- > For all cleaning use White Spirit.

PRECAUTIONS

- > Flammable keep away from sources of ignition.
- > Ensure good ventilation during application.
- > Over occupied premises during insulation of coatings we would advise keeping windows closed.
- > 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 recognised 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 utilised where required.

The specification and coverage rates are given in good faith and are based on our experience and knowledge but without liability.

As Britannia Paints Limited has no direct control over the methods employed by the user in applying its products, any warranty either written or implied is given in good faith and can only cover the material itself.

There is a Code of practice from LRWA-“Specification and use of Liquid Applied Waterproofing Systems” on www.lrwa.org.uk which can be consulted for general advice.

If in doubt regarding any of the above points, please contact our technical services department for advice.

A Material Safety Data Sheet is available on request.

It is the users responsibility to ensure that this data sheet is current prior to using the product.



Certificate Number 8516
ISO 9001



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