

# DURASHIELD

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

## A LONGER-LASTING, SEAMLESS FINISH

Just one coat over primed surfaces

### PERFORMANCE ADVANTAGES

- > Exceptional durability and performance up to ten years
- > Cold applied - no hot works on roof
- > Ready to use
- > Works instantly
- > A single coat system developed over primed surfaces for larger-all-over roofs where greater life expectancy is needed
- > Flexible, highly elastic solvent-based single pack coating with excellent adhesion to almost any wall or roof substrate
- > Rainfall immediately after application has no adverse effect
- > Excellent UV and resistance to movement of the substrate
- > Fast curing, can be applied at low temperatures

### TESTS

**Approvals/Standards:**

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

### ENVIRONMENTAL IMPACT

- > Cold applied liquid roofing membranes have been recognised to help roofing elements achieve up to a BREEAM A+ rating (depending on the roof construction), demonstrating the sustainability and low environmental impact of this chemistry type.



*Developed specifically for refurbishment and overlay applications where greater life expectancy is needed*

### USES

- > Ready for use on all Primed Surfaces: Flat Roofs, Pitched Roofs, Weathered Asphalt and Bituminous Surfaces, Gutters, Concrete, Brickwork, Fibreglass and GRP, Felted Surfaces, Fibrous Cement Corrugated Cladding, Sheetting and Guttering, Metal (Galvanised, Ferrous and Non-Ferrous), 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.

- > OSB/Plywood and Wooden Substrates (must be taped and fully scrimmed and an additional coat of Durashield added) - see Typical Spreading Rates.
  - > Fibrous cement corrugated sheetting and skylight surrounds must be reinforced with scrim to laps and around ALL fixings (see SCRIM RECOMMENDATION on page 2 of this data sheet).
  - > Can be roller or brush applied.
  - > **Not for use on Walkways, Balconies, tanking, fish and aquatic ponds, new lead, Single Ply Membranes - Plasticised PVC (Plastisol) gutters, slate or internal use.**
- DO NOT USE ON NEW BITUMINOUS PRIMERS/COATINGS OR SURFACES.**

### COLOUR RANGE

- > Grey, Black and Solar Reflective White.

### PACK SIZE

- > 5 and 20 litre containers.



## CLEANING OF SUBSTRATE

- > Clean the surface with a powerwash of up to 2,000 psi, depending on the substrate.
- > If needed clean the area with Britannia 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.

## REPAIRS TO SUBSTRATE

### Including splits, cracks, joints, seals and crazed areas.

- > Repair faults in the surface by using a high quality waterproof mastic/filler.
- > Apply Durashield system to repaired areas incorporating Britannia Reinforcing Scrim overlapping by 5cm.

## PRIMING OF SUBSTRATE

### ALL ROOF SUBSTRATES REQUIRE PRIMING BEFORE OVERCOATING WITH DURASHIELD.

See **Primer Guide** for the following substrates:  
These surfaces should be cleaned prior to applying Durashield.

#### Highly Porous/Friable Surfaces

Felted surfaces, fibrous concrete corrugated cladding, sheeting and guttering should be primed with Britannia Durashield FD Primer (see separate technical data sheet).

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

#### Concrete and Masonry

Prime with Durashield FD Primer.

#### OSB/Plywood and Wooden Substrates

OSB/Plywood, wooden substrates and insulation board must be treated with a 50mm wide strip of Britannia Tape (any other tape must be adhesion tested before use). A continuous surface should be created before commencing with the application of Britannia Durashield FD Primer (see separate technical data sheet).

#### Weathered Single-Ply Membranes\*

#### EPDM, PVC, HYPALON, TPO ROOF MEMBRANES and PLASTISOL COATED SUBSTRATES

Prime with Britannia Universal QD Primer-Sealer.

**IT IS GOOD PRACTICE TO INSPECT AND CARRY OUT ADHESION TESTS ON THE SINGLE PLY MEMBRANES INCORPORATING PRIMER, DURASHIELD REINFORCED WATERPROOFING SYSTEM. BEFORE STARTING WORK PLEASE SEE THE SEPARATE ADHESION TEST DOCUMENT ON OUR WEBSITE.**

#### 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.**

#### 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).

#### Fibreglass and GRP

Prime with Britannia Durashield FD Primer.

#### Previously Painted or Coated Substrates\*

Prime with Britannia Durashield FD Primer.

\*Adhesion/pull off test required.



### Repairing with Durashield:

Simply fill in any cracks with a waterproof mastic/filler, apply Durashield FD Primer and coat with Durashield incorporating reinforcing scrim. Finish with one coat of Durashield.

## SCRIM AVAILABILITY

- > 1m x 100m, 0.5m x 100m, 0.2m x 50m rolls of Scrim available.

## SCRIM RECOMMENDATION

- > 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 Durashield over the scrimmed area.

## APPLICATION OF COATING

To the dry and primed surface, apply a generous coat of Britannia Durashield by brush or roller at the specified spreading rate as stated under the heading.

- > 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. Work away from the area immediately being applied and toward a suitable escape access. Do not walk on newly coated surface whilst application is in progress.

## APPLICATION OF SCRIM

Reinforcing Scrim is embedded into the wet Durashield avoiding creasing. Adjacent lengths of the reinforcement must overlap by 5cm for repairs. Finish with one coat of Durashield.

## TYPICAL SPREADING RATES

	Minimum Topcoat/m <sup>2</sup>
<b>METAL SURFACES</b> Unreinforced over Metal:	0.8 lt
<b>SMOOTH SURFACES</b> Smooth Felt, Carrier Membrane, Fibreglass and GRP, Weathered Asphalt or Bituminous Surfaces, Concrete, and Fibrous Cement	1.0 lt
<b>OSB/PLYWOOD AND WOODEN SUBSTRATES (MUST BE TAPED AND FULLY SCRIMMED)</b>	1.0 lt/m <sup>2</sup> as Embedment Coat  0.75 lt/m <sup>2</sup> as Topcoat
<b>INTERMEDIATE</b> Intermediate Mineral Felt, Weathered Asphalt or Bituminous Surfaces and Fibrous Cement	1.25 lt
<b>ROUGH</b> Rough Mineral Felt, Weathered Asphalt or Bituminous Surfaces, Fibrous Cement	1.5 lt

After priming a check must be made for the presence of pinholes and missed areas which can be rectified by applying additional coating as necessary to produce a sound substrate prior to overcoating.

*Spreading rates may vary depending on type and condition of substrate, environment and so on. These examples are intended only as a guide.*



## DRYING TIME

### PRIMER

Britannia Durashield FD Primer can take up to 1 day to cure but can be over coated when dry.

### DURASHIELD

- > Surfaces must be COMPLETELY DRY prior to application of Durashield.
- > 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 immediately after application has no adverse effect.

## IMPORTANT

- > Britannia Durashield 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 6229:2003 (Code of Practice for the application of Liquid Applied Waterproofing Systems to flat roofs with continuously supported coverings).

# PRIMER GUIDE FOR DURASHIELD

Substrate	Britannia Durashield FD Primer	Britannia Zinc Phosphate Metal Primer	Britannia 1 Pack Etching Primer	Britannia Universal QD Primer-Sealer
<b>POROUS AND FRIABLE</b>				
Felted Surfaces	✓			
Asbestos Cement	✓			
Concrete	✓			
Weathered Asphalt and Bituminous Surfaces	✓			
<b>OSB/PLYWOOD AND WOODEN SUBSTRATES</b>				
Timber Decks	✓			
Plywood	✓			
<b>METALS</b>				
Ferrous		✓		
Galvanised Metal			✓	
<b>NON-FERROUS METALS</b>				
Lead (not to be used on new lead)				
Aluminium			✓	
Copper			✓	
<b>OTHERS</b>				
Fibreglass and GRP	✓			
Previously painted or coated substrates*	✓			
EPDM*				✓
PVC*				✓
HYPALON*				✓
TPO ROOF MEMBRANES*				✓
PLASTISOL COATED SUBSTRATES*				✓

For difficult substrates and technical advice, please contact us

**IT IS GOOD PRACTICE TO INSPECT AND CARRY OUT ADHESION TESTS ON THE ABOVE HIGHLIGHTED PRODUCTS (\*) PRIOR TO APPLYING THE DURASHIELD WATERPROOFING SYSTEM.**

\*Adhesion/pull off test required.



## CLEANING OF EQUIPMENT

- > For cleaning equipment use White Spirit.

## SHELF LIFE

- > Up to 2 years if stored correctly in an unopened container

## 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 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.

## MAINTENANCE AND REPAIR

### Maintenance

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.

### Repair

Any damage to the system must be repaired as soon as possible to ensure that waterproofing integrity is maintained.

## IMPORTANT NOTES ON APPLICATION AND LIMITATIONS

- > Britannia Durashield 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 6229.2003 (Code of Practice for the application of Liquid Applied Waterproofing Systems to flat roofs with continuously supported coverings).
- > Do not apply Britannia Durashield on substrates with rising moisture.
- > Britannia Durashield is not suitable for permanent water immersion.
- > Do not dilute Britannia Durashield with any solvent.
- > On substrates likely to exhibit outgassing, apply during falling 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 Britannia Durashield 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 Britannia 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 onto Durashield.
- > Do not use grit salt and/or other de-icing agents between coats of Durashield as this may affect the cure and inter-coat adhesion of the product.
- > Whilst Durashield 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.



## VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, please refer to the most recent Material Safety data sheet.

## DISCLAIMER

The information, and, in particular, the recommendations relating to the application and end-use of Britannia's products, are given in good faith based on Britannia's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Britannia's recommendations.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Britannia reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data.

## FURTHER INFORMATION

There is a Code of practice from LRWA-"Specification and use of Liquid Applied Waterproofing Systems" on [www.lrwa.org.uk](http://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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