

# 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.



### USES

- > Ready for use on Flat Roofs, Pitched Roofs, Weathered Asphalt and Bituminous Surfaces, Gutters, Concrete, Brickwork, Fibreglass and GRP, Felted Surfaces, Asbestos Cladding, Sheeting and Guttering, Metal ( Galvanised, Ferrous and Non-Ferrous), Old Lead, Existing Painted Surfaces and EPDM.
- > Can be roller or brush applied.
- > **Not for use on Walkways, Balconies, tanking, fish and aquatic ponds, OSB/Plywood and Wooden substrates, plasticised PVC (Plastisol) new lead, 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, concrete and asbestos cladding, sheeting and guttering should be primed with Britannia Durashield Primer (see separate technical data sheet).

#### **Concrete and Masonry**

Prime with Durashield Primer.

#### **Weathered Asphalt and Bituminous surfaces**

Prime with Britannia Durashield 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 Primer.

#### **Previously Painted or Coated Substrates**

Prime with Britannia Durashield Primer.

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

### *Repairing with Durashield:*

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



## SCRIM RECOMMENDATION

- > 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.

## APPLICATION OF COATING

**To the dry and cleaned 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.

## BEFORE DURASHIELD



**AFTER: A SEAMLESS  
WATERTIGHT FINISH WITH A  
TEN-YEAR LIFE EXPECTANCY**



### 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 and Concrete.	1.0 lt
<b>INTERMEDIATE</b> Intermediate Mineral Felt, Weathered Asphalt or Bituminous Surfaces and Asbestos.	1.25 lt
<b>ROUGH</b> Rough Mineral Felt, Weathered Asphalt or Bituminous Surfaces, Asbestos and 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 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 Primer	Britannia Zinc Phosphate Metal Primer	Britannia 1 Pack Etching Primer
<b>POROUS AND FRIABLE</b>			
Felted Surfaces	✓		
Asbestos Cement	✓		
Concrete	✓		
Weathered Asphalt and Bituminous Surfaces	✓		
<b>DO NOT USE ON NEW BITUMINOUS PRIMERS/COATINGS OR SURFACES.</b>			
<b>METALS</b>			
Ferrous ( need to abrade)		✓	
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 ( not required)			

**IT IS GOOD PRACTICE TO INSPECT AND CARRY OUT ADHESION TESTS INCORPORATING THE PRIMER AND DURASHIELD**

\*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.

## 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.*



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**Version 1 / Dec 2013**