

# DURASHIELD FD PRIMER

WATERPROOFS ROOFS INSTANTLY

**FAST DRYING PRIMER** for very porous substrates prior to topcoat

## PERFORMANCE ADVANTAGES

- > Vital stabilisation of highly friable/porous surfaces prior to application of Durashield topcoat
- > Works instantly
- > Ready to use
- > Ensures Durashield topcoat delivers optimum waterproofing performance
- > Rainfall immediately after application has no adverse effect
- > Solvent based

## USES

Ready for use on highly friable/porous surfaces e.g. Concrete, Asbestos Cladding, Sheeting and Guttering, OSB/Plywood, Wooden Substrates and EPDM.

- > Can be brush, roller or spray applied.

Not for use on tanking, fishponds, new lead or internal use.

- > Cannot be used as a topcoat.

## COLOUR RANGE

- > Clear.

## PACK SIZE

- > 1L, 5L, 20L containers.



## PREPARATION OF SUBSTRATE

- > Ensure the substrate is free from old plant and debris
- > Cut all brick chases if required
- > The outlets and gutters must be free from obstruction  
*Do all your dirty work before cleaning!*

## 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 FD Primer followed by Durashield Waterproofing System to repaired areas incorporating Britannia Reinforcing Scrim overlapping by 5cm.

## PRIMING OF POROUS SUBSTRATES

VERY POROUS ROOF SUBSTRATES REQUIRE PRIMING BEFORE OVERCOATING WITH DURASHIELD WATERPROOFING SYSTEM.

See Primer Guide for the following substrates:

### Highly Porous/Friable Surfaces

Felted surfaces, fibrous cement corrugated cladding, sheeting and guttering 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 board must be treated with a 50mm wide strip of Britannia Tape (any other tape must be tested before use). A continuous surface should be created before commencing with the application of Britannia Durashield FD Primer.

### Weathered Single-Ply Membranes\*

**PVC, HYPALON, TPO ROOF MEMBRANES and PLASTISOL COATED SUBSTRATES**

See Priming Chart on next page.

### 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.**

## APPLICATION OF PRIMER

- > DO NOT THIN
- > Stir well before use as separation could occur.

To the dry and cleaned surface, apply a generous coat of Britannia Durashield FD Primer 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.

## TYPICAL SPREADING RATES

	Minimum Primer/m <sup>2</sup>
<b>POROUS AND FRIABLE</b> Felted surfaces, Fibrous Cement, Concrete, Weathered Asphalt and Bituminous Surfaces, Fibreglass and GRP,	0.2 - 0.33 lt (equivalent to 3-5 m <sup>2</sup> /lt)
<b>OSB/PLYWOOD AND WOODEN SUBSTRATES (MUST BE TAPED AND FULLY SCRIMMED)</b>	0.2 - 0.33 lt (equivalent to 3-5 m <sup>2</sup> /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

Britannia Durashield FD Primer will be dry under normal conditions in 2-4 hrs depending on humidity and temperature and can be overcoated when dry.

## WATER REPELLENCY

- > Rainfall immediately after application has no adverse effect.



# PRIMER GUIDE FOR DURASHIELD WATERPROOFING SYSTEM

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>SINGLE PLY MEMBRANES</b>				
PVC*				✓
HYPALON*				✓
TPO ROOF MEMBRANES*				✓
PLASTISOL COATED SUBSTRATES (not gutters)*				✓

For difficult substrates and technical advice, please contact us

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

\*Adhesion/pull off test required.

### FOR POROUS, PREVIOUSLY PAINTED SURFACES, METAL OR WEATHERED SINGLE-PLY MEMBRANES

On-site peel adhesion tests should be carried out to determine whether good adhesion can be achieved and to ascertain substrate preparation and priming methods. This is typically done by setting out 6 inch x 6 inch patches of reinforcing scrim to allow a 'pull test'.

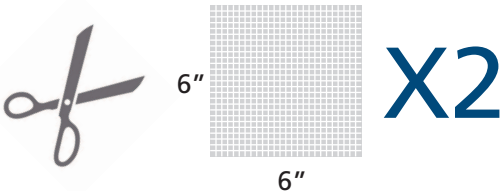
### Items needed to carry out the test

- > Durashield
- > 2 pieces of Britannia Reinforcing Scrim
- > Durashield FD Primer
- > Metal Primer
- > Universal QD Primer-Sealer
- > Paint Brush
- > Painters Tape
- > Permanent Marker

### FOLLOW THESE DIRECTIONS CAREFULLY

#### Step 1

Cut two squares of Britannia Reinforcing Scrim, each 6 inches x 6 inches.



#### Step 2

Clean two areas of roof, each approximately 12 inches x 12 inches. In the middle of each area mask off two squares, each approximately 8 inches x 8 inches. Then use marker on the painter's tape to label each square as shown.



1. Durashield FD Primer for porous surfaces, EPDM or previously painted surfaces

2. Metal Primer for metal surfaces

3. Universal QD Primer-Sealer for single-ply membranes

#### Step 3

Square 1 – apply one coat of Durashield FD Primer to the EPDM or previously painted surface and allow to dry.  
 Square 2 – apply one coat of Metal Primer to the metal surface and allow to dry.  
 Square 3 – apply one coat of Universal QD Primer-Sealer to the single-ply membrane and allow to dry.



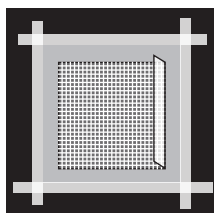
1.

2.

3.

#### Step 4

Apply to primed square one coat of Durashield and then embed the Britannia Reinforcing Scrim. Before embedding, fold back 1 inch of the scrim and leave completely dry.



#### Step 5

Allow all sample areas to dry for 24 hours.



#### Step 6

Mark each folded back piece of scrim with its square number.



#### Step 7

Allow to dry for a further 6 days.



#### Step 8

After 6 days grasp each 1 inch area of untreated scrim and pull back.

### Observations and conclusions

Inspect each piece of scrim and determine how difficult each was to remove (comparing the two with each other in the case of single ply surfaces). Also inspect the sample area and backs of the pieces of scrim. A destructible bond is the ideal condition – where some of the Durashield is left on the roof and some of it is on the back of the scrim.

*It is the users responsibility to ensure that the data sheet for each product is current prior to starting the test.*

**IMPORTANT: PLEASE ENSURE THAT RAIN IS NOT FORECAST DURING THE TEST PERIOD**

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## IMPORTANT

- > Britannia Durashield FD Primer 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).

## CLEANING

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.
- > 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.

## 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  
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