

POLYSHIELD PRIMER

STABILISING PRIMER TO FORM A SOUND SUBSTRATE

PRIMER for substrates prior to POLYSHIELD Reinforced Waterproofing System



PERFORMANCE ADVANTAGES

- > Formulated to improve adhesion onto difficult substrates
- > Deep penetrating low viscosity primer
- > Used on friable/porous surfaces to bind the surface
- > Reduces coverage rates
- > Forms a sound substrate suitable for coating prior to Polyshield Reinforced Waterproofing System



APPROVED CONTRACTORS

- > Installing contractor must be fully trained in the use of the Polyshield system.

USES

For use on flat roofs, highly friable/Porous and difficult substrates e.g Weathered Asphalt and Bituminous Surfaces, Concrete, Brickwork, Fibreglass and GRP, Felted Surfaces, Asbestos Cladding, Sheeting, Old Lead, Previously Painted Surfaces*.

- > OSB/Plywood and Wooden substrates
- > Weathered Single-Ply membranes including EPDM*.
- *Adhesion/pull off test required.
- > Can be brush or roller (solvent resistant) applied.
- > **Not for use on Walkways, Balconies, tanking, fish and aquatic ponds, new lead, slate or internal use.**

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

- > Cannot be used as a topcoat.
- > We do not guarantee on part roof repairs and stand alone gutters.

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 Polyshield Primer followed by Polyshield Reinforced Waterproofing System to repaired areas incorporating Britannia Reinforcing Scrim overlapping by 5cm.

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 Britannia's instructions.
- > **It is the contractors responsibility to inspect each section of the application to ensure the correct measures and steps outlined in this specification document are applied.**

PRIMING OF SUBSTRATE

ALL ROOF SUBSTRATES REQUIRE PRIMING BEFORE OVERCOATING WITH POLYSHIELD REINFORCED 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 Britannia Polyshield Primer.

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

Concrete and Masonry

Prime with Britannia Polyshield Primer

Weathered Asphalt and Bituminous Surfaces

Prime with Britannia Polyshield 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 Polyshield Primer.

Weathered Single-Ply Membranes*

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

See Priming Chart on page 4.

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.

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 Polyshield Primer.

Previously Painted or Coated Substrates*

Prime with Britannia Polyshield Primer.

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

*Adhesion/pull off test required.

APPLICATION OF PRIMER

- > **STIR WELL BEFORE USE**
- > **DO NOT THIN**

To the **dry and cleaned surface**, apply a generous coat of Britannia Polyshield 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/m²

POROUS AND FRIABLE
Felted surfaces, Asbestos, Cement, Concrete, Weathered Asphalt and Bituminous Surfaces, Fibreglass and GRP

0.2 - 0.33 lt
(equivalent to 3-5 m²/lt)

OSB PLYWOOD AND WOODEN SURFACES

0.2 - 0.33 lt
(equivalent to 3-5 m²/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 Polyshield 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 POLYSHIELD REINFORCED WATERPROOFING SYSTEM

Substrate	Britannia Polyshield Primer	Britannia Zinc Phosphate Metal Primer	Britannia 1 Pack Etching Primer	Britannia 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*	✓			

For difficult substrates and technical advice, please contact us

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.

FOR 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'.

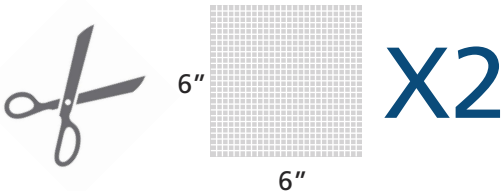
Items needed to carry out the test

- > Polyshield Basecoat (Part of the Polyshield System)
- > 2 pieces of Britannia Reinforcing Scrim
- > Polyshield Primer
- > Metal Primer
- > Universal QD Primer-Sealer
- > Paint Brush
- > Painters Tape
- > Permanent Marker

FOLLOW THESE DIRECTIONS CAREFULLY

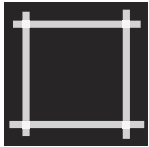
Step 1

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

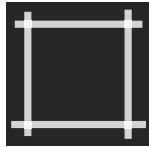


Step 2

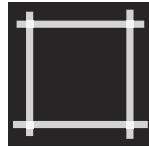
Clean two areas of roof, each approximately 12 inches x 12 inches. In the middle of each area mask off two squares, each approximately 8 inches x 8 inches. Then use marker on the painter's tape to label each square as shown.



1. Polyshield Primer for 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 Polyshield 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.



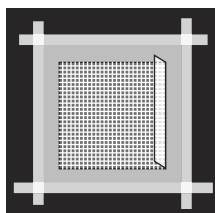
2.



3.

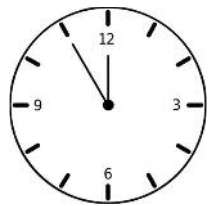
Step 4

Apply to primed square one coat of Polyshield Basecoat 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 Polyshield 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 Polyshield 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 6229:2018 (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.
- > 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.

THE BRITANNIA TRAINING CENTRE



**PLEASE CONTACT US
FOR FURTHER DETAILS
ON OUR APPROVED
CONTRACTOR PROGRAMME**

FURTHER INFORMATION

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

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 Britannia Paints to determine suitability. For specifications/applications not approved in writing by Britannia Paints will not be covered by any guarantee.



Certificate Number 8516
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