

Triflex BBS

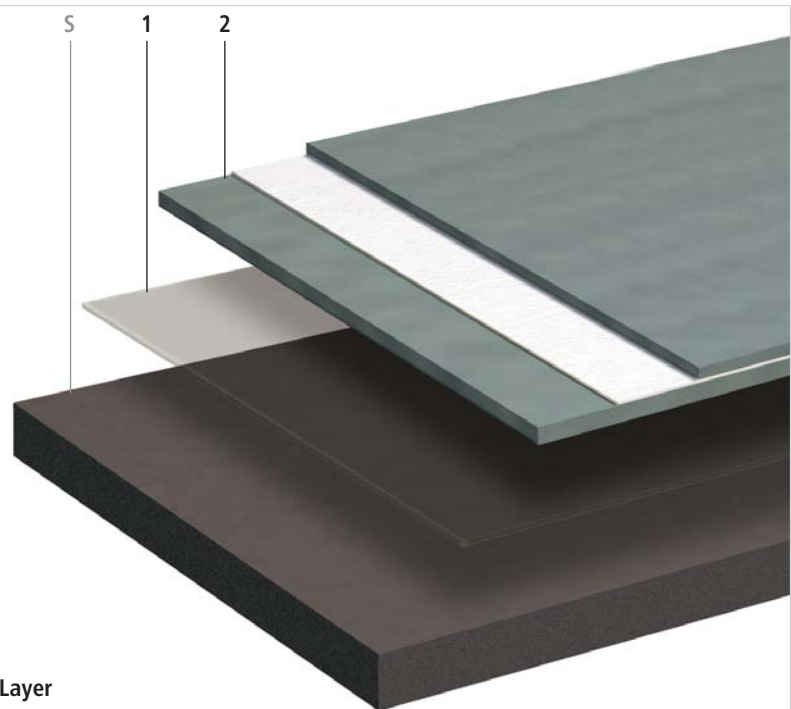
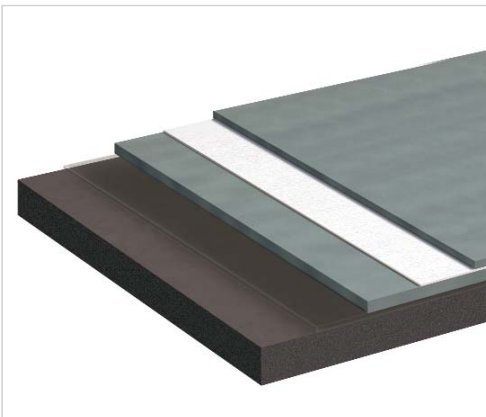
System Data Sheet

Fast curing, liquid applied, fully reinforced, buried waterproofing system for walkways, balconies and terraces

Properties

- Totally waterproof, thick layer system (>2mm Dry Film Thickness)
- Fully reinforced liquid applied materials
- Seamless - with no joints, seams or fixings
- Elastomeric and dynamic crack bridging
- ETA certified waterproofing membrane - no. 04/0019 (25 year durability statement)
- Totally cold applied
- Exceptionally fast curing
- Can be applied at low temperatures (-5° c)
- Bridges unforeseen cracks
- Resistant to flexural fatigue
- Hydrolysis resistant - resistant to standing water
- Based on highly advanced PMMA technology
- Tough, highly impact resistant
- Durable - resistant to static and dynamic loads
- Suitable for use in all European climatic zones
- Quick and easy to apply
- Compatible with a wide range of substrates
- Suitable for all common walkway, balcony and terrace constructions
- Fire resistant:
 - German Standard
Test method 1/prENV 1187; Classification B roof (t1) prEN 13501-5
 - Nordic Standard Nordtest NT Fire
Test method 2/prENV 1187; Classification B roof (t2) prEN 13501-5
- French AFNOR Standard
Test method 3/prENV 1187; Classification B roof (t3) prEN 13501-5
- Fully bonded with excellent inter layer adhesion
- Chemical resistant
- Resistant to Chloride and Carbon Dioxide ingress
- Vapour permeable
- UV resistant
- Solvent free
- Isocyanate free
- Halogen free
- Tailored design options
- 10 year materials warranty as standard
- Optional extended warranties available

System Build Up



- S Substrate
 1 Triflex Primer
 2 Triflex ProTerra® Reinforced Waterproofing Layer

System Details

Triflex Primer - Primer for sealing of substrate and to improve adhesion.

Triflex ProTerra® Reinforced Waterproofing Layer - Waterproofing layer fully reinforced with a tough polyester fabric.

Applications

The system is suitable for the waterproofing of walkways, balconies and terraces over occupied premises in buried / inverted applications.

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Substrate preparation and priming

Substrate	Preparation Notes	Priming	
		Triflex BBS main area	Triflex ProDetail® for details
Paving mastic asphalt	1	Triflex Cryl Primer 222	Triflex Cryl Primer 222
Roofing mastic asphalt	1	N/A details only	Triflex Cryl Primer 222
Hot Rolled / Stone Mastic Asphalt (HRA/SMA)	1 / 8	Triflex Cryl Primer 222	Triflex Cryl Primer 222
Felt	2	N/A details only	No primer required
SBS Felt	2	N/A details only	No primer required
APP Felt	3	N/A details only	No primer required
Concrete / Screed	1 / 6	Triflex Cryl Primer 276	Triflex Cryl Primer 276
Lightweight concrete	1 / 6	Triflex Cryl Primer 276	Triflex Cryl Primer 276
Polymer modified concrete repair materials	1 / 6	Triflex Cryl Primer 276	Triflex Cryl Primer 276
Steel	4	No primer required	No primer required
Galvanised steel	4	No primer required	No primer required
Stainless steel	4	N/A details only	No primer required
Aluminium	4	N/A details only	No primer required
Copper	4	N/A details only	No primer required
Zinc	4	N/A details only	No primer required
Lead	4	N/A details only	No primer required
Glass	4	N/A details only	No primer required
Timber	2	N/A details only	Triflex Cryl Primer 276
Plastics (sheets, coatings, mouldings)			
CPE	4	N/A details only	No primer required
EVA	2	N/A details only	No primer required
PIB	2	N/A details only	No primer required
PVC-P, nB	4	N/A details only	No primer required
UPVC	4	N/A details only	No primer required
GRP	4	N/A details only	No primer required
PU (polyurethane)	5 / 7	No primer required	No primer required
PMMA (acrylic)	5 / 7	No primer required	No primer required
UP (polyester)	5 / 7	No primer required	No primer required
EP (epoxy)	5 / 7	No primer required	No primer required

For other substrates, consult Triflex (UK) Limited for required preparation methods and priming.

Notes:

- 1 = Scarify, grind or lightly bead blast
- 2 = Clean thoroughly
- 3 = Liquefy surface by application of heat and immediately top with quartz
- 4 = Rub down thoroughly with Triflex Cleaners, and abrade / grind metals and hard plastics to achieve a roughened surface
(steel must be ground or blasted to bright metal – where all rust cannot be practically removed an approved active anti-corrosion primer may be used)
- 5 = Lightly abrade and carry out an adhesion test
- 6 = The equilibrium moisture content of cementitious materials must not exceed 6% or 75% RH. Where moisture levels are in excess of these values refer to Triflex Pox R103
- 7 = Subject to testing of insitu material and approval by Triflex (UK) Limited
- 8 = For HRA and SMA, increase primer consumption by 50% and use maximum practical catalyst (minimum 6%)

Where there are any doubts as to adhesion, carry out an adhesion test.

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Substrate Assessment

In all cases the condition and stability of the underlying substrate should be assessed prior to the commencement of work. See Substrate Testing section. Concrete structures should be designed in accordance with BS8110/CP110.

Substrate Preparation

Refer to substrate preparation and priming schedule.

Generally:

Remove existing paint and finishes etc. by grinding.

Ensure that the prepared surface is clean, dry and free from dust, laitence, grease, oil and any other contaminants.

Priming

Refer to substrate preparation and priming schedule.

Triflex Cryl Primer 222:

Apply with a lambswool roller (0.4kg/m² min.)

Rainproof after approx. 30 minutes.

Can be walked upon/next coat applied after approx. 45 minutes.

Triflex Cryl Primer 276:

Apply with a lambswool roller (0.4kg/m² min.)

Rainproof after approx. 30 minutes.

Can be walked upon/next coat applied after approx. 45 minutes.

Note: For new cementitious materials where it is not practical to allow the substrate to hydrate to below 6% equilibrium moisture content and 75% RH, or for existing cementitious substrates with higher levels of moisture, Triflex Pox R103 can be used where the equilibrium moisture content is less than 10%.

Triflex Pox R103:

Apply with a lambswool roller (0.5kg/m² min.)

Can be walked on after approx. 8 hours.

Next coat applied after approx. 18 hours.

Able to withstand stress after approx. 24 hours.

Surface Repairs and Filling

Cut out blisters and repair all minor indentations with scratch coat of Triflex Cryl RS 233 or Triflex Cryl Paste. Allow to dry for a minimum of 1 hour.

Fill all voids in vertical surfaces and at upstand transitions with Triflex Cryl Paste and allow to dry for a minimum of 1 hour.

Larger indentations can be filled with Triflex Cryl RS 240 (cementitious substrates), Triflex Cryl Mortar or Triflex Cryl Paste Mortar (non-cementitious substrates).

Interface Details

Apply in accordance with standard and project specific sketch details.

General Details:

Apply Triflex ProDetail® (2.0 kg/m² min.) with a lambswool roller.

Roll a strip of Triflex 110g Reinforcement into the wet resin, pressing trapped air free using the lambswool roller, ensuring a minimum 50mm overlap between the reinforcement sheets.

Apply Triflex ProDetail® (1.0 kg/m² min.) wet on wet to ensure full saturation of the fleece.

Rainproof after approx. 30 minutes.

Can be walked on/next coat applied after approx. 45 minutes.

Complex Details:

Where due to access restrictions, or complexity of the detail, ProDetail® is not practical:

Apply Triflex Cryl R 295 fibre reinforced resin (1.5 kg/m² min.) with a brush and allow to cure for a minimum of 45 minutes.

Apply a further layer of Triflex Cryl R 295 fibre reinforced resin (1.5 kg/m² min.) by brush.

Rainproof after approx. 30 minutes.

Can be walked upon/next coat applied after approx. 45 minutes.

Note: Where details may be subject to mechanical damage, consult Triflex (UK) Limited for mechanical protection solutions.

Main Area

Apply an even layer of Triflex ProTerra® (2.0 kg/m² min.) with a lambswool roller.

Roll Triflex 110g Reinforcement into the wet resin, pressing trapped air free using the lambswool roller, ensuring a minimum 50mm overlap between the reinforcement sheets.

Apply Triflex ProTerra® (1.0 kg/m² min.) wet on wet to ensure full saturation of the fleece.

Rainproof after approx. 30 minutes.

Can be walked upon/next coat applied after approx. 45 minutes.

Able to withstand stress after approx. 2 hours.

Optional Heavy Duty Wearing Course

Apply Triflex ProTerra® (1.5kg/m² min.) with a lambswool roller.

Embed into the liquid layer a full cover of crystal quartz (0.7-1.2mm) or basalt (1.0-1.6mm) (7.0kg/m²) approx. Allow to dry for a minimum of 1 hour, sweep away excess aggregate and vacuum clean.

Rainproof after approx. 30 minutes.

Can be walked upon after approx. 45 minutes.

Able to withstand stress after approx. 2 hours.

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Optional Finish

Interface Details

Apply Triflex Cryl Finish 205 (0.5kg/m²min) using a lambswool roller.

Rainproof after approx. 30 minutes.

Can be walked upon after approx. 1 hour.

Note: For interface details in excess of 250mm high, use Triflex Cryl Finish 205 Thixo.

Main Area

Apply Triflex Cryl Finish 205 (0.65kg/m² min.), (0.80kg/m² min.) if over basalt) using a lambswool roller and remove excess material / level with a dry lambswool roller.

Rainproof after approx. 30 minutes.

Can be walked upon after approx. 1 hour.

Can be subjected to loads after approx. 3 hours.

Expansion Joints

Consult Triflex (UK) Limited for confirmation of design details required.

Interruptions During Works

If work is interrupted for more than 12 hours, use Triflex Cleaner to clean and reactivate the transition area.

Evaporation time: at least 20 minutes - overlay within 60 minutes.

For reinforced details, the subsequent waterproofing layers must overlap by at least 100 mm, including the Reinforcement.

System Components

Please refer to the appropriate Product Data Sheet for details about areas of application/application conditions/mixing instructions (available on request):

Triflex Cryl Primer 222

Triflex Cryl Primer 276

Triflex Pox R103

Triflex Cryl Paste

Triflex Cryl RS 233

Triflex Cryl RS 240

Triflex Cryl Mortar

Triflex Cryl Paste Mortar

Triflex 110g Reinforcement

Triflex ProDetail®

Triflex Cryl R 295

Triflex ProTerra®

Triflex Cryl Finish 205

Quality Standard

All products are manufactured to ISO 9001.

Substrate Testing

Prior to the commencement of work the Contractor must check and only proceed if he has satisfied the following requirements.

Dimensional stability: All factors which may affect the subsequent performance of the system e.g. failed structural elements etc. must be repaired.

Hardness: All concrete substrates, concrete repair materials, screeds and mortars shall be cured and allowed to achieve a minimum hardness of 25N/mm².

Moisture: Prior to overlay with Triflex systems, the equilibrium moisture content of the substrate must not exceed 6% and 75% RH. For cementitious substrates with higher levels of moisture (less than 10% equilibrium) refer to Triflex Pox R103.

Adhesion: Trial areas to be prepared to ensure that the System achieves a minimum bond to the substrate of:

Concrete, concrete repair materials, screeds and mortars: 1.5N/mm²

All other substrates: 0.8N/mm²

Health and Safety

Refer to product Health and Safety data prior to using the materials.

Coverage Rates

The coverage rates given are guidelines based on smooth, level substrates. Allowances must be made if the substrate is uneven, rough or porous.

Drying Times

The drying times stated are at +20 °C and are dependent upon weather conditions.

Important Notes

It is the Contractors' responsibility to ensure that the substrate is suitable and that the system is applied in all areas in accordance with Technical Data Sheets, Application Guidelines and ETA certificate in force at the time.

The advice we can provide on the application of our products is based on extensive development work as well as many years of experience and is given to the best of our knowledge. However, the wide variety of requirements for a building under the most diverse conditions mean that it is necessary for the Contractor to test the product for suitability in any given case. We reserve the right to make alterations in keeping with technical developments or improvements.