

Triflex BTS-P

Balcony waterproofing system



The specialist in liquid applied waterproofing

Triflex®

Liquid applied waterproofing
Balconies | Flat roofs | Parking decks

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Safety on balconies and roof terraces



Waterproofing doesn't just extend the lifetime of buildings. It is also indispensable when it comes to protecting inhabited premises. Balconies, walkways and roof terraces are among the most prominent components of a building construction and where, in particular, the supporting structure is subject to both thermal and mechanical loads and other load impacts. Lack of functional waterproofing can lead to damage from moisture penetration, concrete flaking and corrosion of reinforcements. And there is simply no reason for this anymore.

Triflex has more than 30 years experience of using durable waterproofing and coating systems in the world of building refurbishment. Triflex BTS-P is a waterproofing system that has been developed specially for balconies, walkways and roof terraces and reliably protects load-bearing elements.

Safe escape routes due to fire protection

The Triflex BTS-P (S1) version is a flame retardant enhancement of the proven Triflex BTS-P waterproofing system. Special additives have made this mechanically and chemically highly stable system flame resistant, so that it is ideal for walkways and escape routes. The unique Triflex BTS-P (S1) system is designed solely for use on mineral substrates.



Solutions for details and areas that are vulnerable to cracking

Triflex BTS really shows what it is made of when it comes to the weak points of conventional products – to the details. Its advantage is that the liquid-applied resin can reach into the smallest spaces. That is why even problematic upturns, pillars and corners can be incorporated perfectly – and above all seamlessly – in the waterproofing applied to the main area. Since the material bonds with the substrate, it forms a barrier against penetrating damp even in the event of mechanical damage. And the crack-bridging Triflex BTS simply accommodates structural movement that occurs primarily where horizontal and vertical components meet.



Tested and approved materials

Triflex ProTerra waterproofing resin, part of the BTS-P system, is a further development of the modern, fast-curing polymethyl methacrylate resin (PMMA), which is based on 20 years of experience with this material. The quality of the product and system is particularly high, as is confirmed by the various test procedures and approvals.

The Triflex ProTerra waterproofing system has obtained European Technical Approval (ETA) and meets the requirements of the EU directive on building products (CE marking). The root resistance has also been tested in line with the FLL procedure. The system is classified as being root-resistant and rhizome-resistant.



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Advantages at a glance

■ Durable

Triflex BTS-P is a thick-layer waterproofing system with a layer thickness of approx. 4 to 5 mm, depending on the version. The waterproofing withstands high mechanical loads caused by tables and chairs on balconies, or pedestrian traffic on walkways permanently.

■ Highly resilient with dynamic crack-bridging

The system is full-surface fleece-reinforced. This gives the material a level of flexibility that leaves it unaffected by any movement of the foundation.

■ Fire protection

The Triflex BTS-P (S1) version is a flame retardent waterproofing system. The fire behaviour is graded in Class B1 (flame retardant) acc. to DIN 4102 and Class C_{fl}-s1 acc. to DIN EN 13501-1. The high quality of the system is verified by a test certificate.

■ Waterproof down to the details

The cured resin forms a seamless and joint-free surface. Even complex details, such as handrail supports, can be easily and homogenously waterproofed using liquid applied technology

■ Easily refurbished

The system can be applied to virtually all substrates, is vapour-permeable and, with a surface weight of less than 10 kg/m², it is also suitable for application on existing old substrates without negatively affecting stability. This saves removal costs and time.

■ Short closure periods

Triflex BTS-P offers much faster curing times than systems made of EP or PUR resins. Surfaces requiring refurbishment can be fully used by residents on the day of application.

■ Colours and surfaces

The system can be enhanced with a range of colours. Surfaces can be customised using Triflex Colour Design or Triflex Micro Chips and anti-skid surfaces created by dressing with quartz sand of Classes R 11 and R 12.

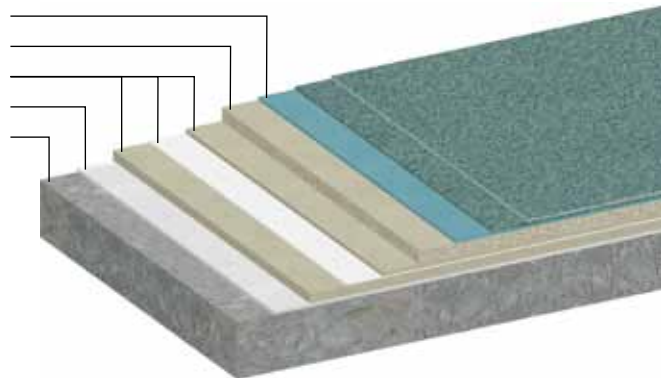
■ Easy-care

All surfaces can be kept clean quickly and easily in the normal way.

The system in detail

Triflex BTS-P is a PMMA-based, fully reinforced waterproofing system for balconies and roof terraces above occupied rooms, as well as for substrates that are vulnerable to cracking. The system construction is applied as a liquid on site, wet in wet.

Finishing
Wearing layer
Waterproofing
Priming
Substrate



Life through colour

The system can be sealed in a range of colours and finishes. Other shades, apart from the classic shades of grey, are available, from maize yellow to lavender blue. Not only can microchips be used as a finish, but a variant using a fine quartz sand topping is also possible. These options allow you to design your balcony to suit your individual taste. Open-air living rooms can now become open spaces for living.





And this is how it's done ...



1 Prime the details, junctions and surfaces.



2 Prepare the Triflex Special Fleece cut-outs.



3 First, the details are waterproofed using Triflex ProDetail.



4 Triflex Special Fleece is applied across the entire surface ensuring there are no air bubbles.



5 A second layer of Triflex ProDetail is applied.



6 The details are completely waterproofed.



7 Triflex ProTerra is applied generously to the surface.



8 Triflex Special Fleece is applied across the entire surface ensuring there are no air bubbles.



9 A second layer of Triflex ProTerra is applied.



10 The wearing layer: Triflex ProFloor ...



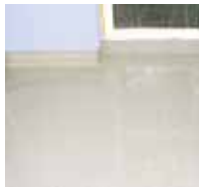
11 ... Use a trowel to apply and spread evenly.



12 Apply the sealant Triflex Cryl Finish 205 and ...



13 ... blow in Triflex Micro Chips.



14 Done!

Triflex quality



ISO 14001



We are here to help.

Our aim is to make life that little bit easier for you. We will provide you with all the information you need to reach a clear decision. Our technical support team will be pleased to visit you on site. Triflex system descriptions, system drawings and colour design suggestions are available on request. Moreover, standard tender texts can be downloaded at www.triflex.com.

Triflex products are based on more than 30 years of experience, combined with continuous development and liquid applied waterproofing system solutions that have been tried and tested in a whole range of applications. The company is certified to ISO 9001 and Triflex products have obtained ETA approval or obtained General Building Supervisory Authority Test Certificates (abP) and compliance marks; just some of the factors that contribute to the high standard of quality.

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