

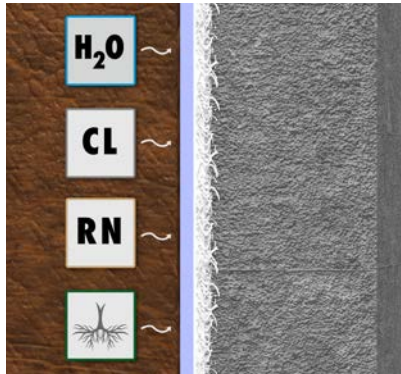


BPA-DualProof

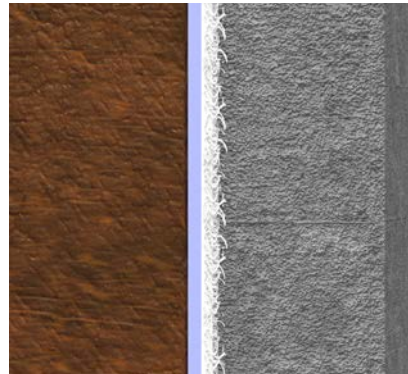
COMPOSITE WATERPROOFING MEMBRANE
SOLUTIONS FOR BELOW GROUND REINFORCED CONCRETE
CONSTRUCTIONS, FOUNDATIONS AND TUNNELS

FUNCTION OF THE BPA-DualProof TECHNOLOGY

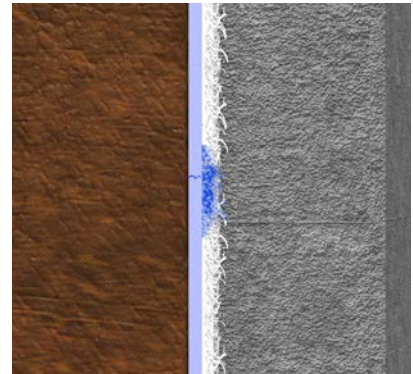
The sealing function of our Composite Waterproofing Membrane BPA-DualProof is attained through the interaction of its various components:



The DualProof membrane is specifically designed for the waterproofing and protection of below ground reinforced concrete against moisture, salt water, radon and root penetration.



The Barritex® fleece forms a permanent mechanical bond with the freshly poured concrete thus preventing any water from tracking between the membrane and the concrete.

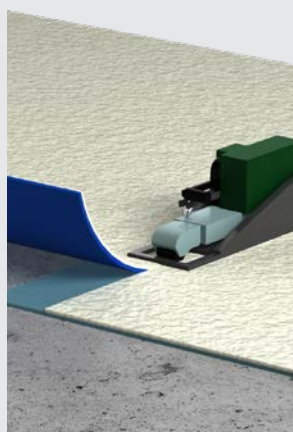
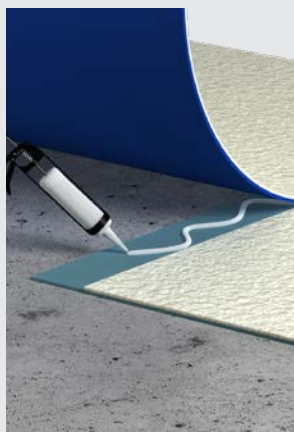


In the event of damage to the membrane, the mechanical bond with the concrete ensures that no lateral water migration can occur.

APPLICATION AND INSTALLATION

Early in the development process of our Composite Waterproofing Membrane BPA-DualProof we put an emphasis on the actual on-site demands. With BPA-DualProof we developed a product for fast and easy on-site handling. The product can either be glued or thermally bonded depending on the intended use.

The high-performance PVC and TPO/FPO-membranes gives us various options for connecting BPA-DualProof with existing sealing products and waterstops. Please see our application advice for further details on the application and installation or consult our Sales and Application Partners.



ACTIVE SURFACE PROTECTION

The Composite Waterproofing Membrane may be used in all applications, where reinforced concrete structures must be protected against groundwater and ground contaminants. It is suitable for external, single layer structural waterproofing of floor slabs and exterior concrete wall surfaces against soil moisture and non-pressurized and pressurized water.

The BPA-DualProof Membrane System consists of a special non-woven PP-fleece of the newest BPA Barritex® Technology, which is co-extruded with a PVC or TPO/FPO-membrane on one side.

The addition of special swelling-polymers on our BPA-DualProof S Membrane produces a composite sheet membrane with self-healing properties, making it suitable for a post-applied installation.

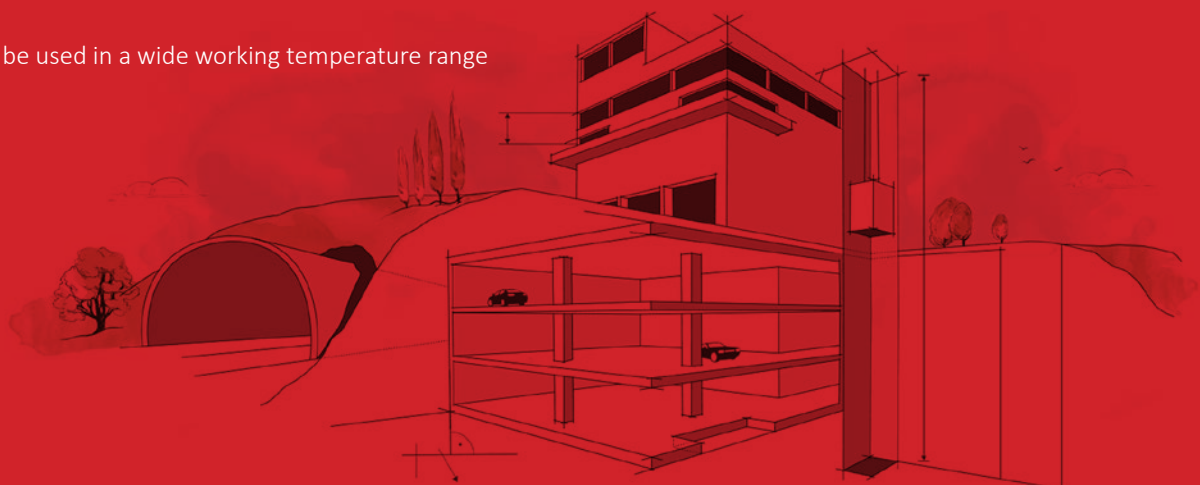
The combination of our Barritex® fleece with a highly flexible PVC or TPO/FPO-membrane makes our BPA-DualProof Membrane Systems a fail-safe, state-of-the-art waterproofing membrane, preventing any lateral water movement between the membrane and the concrete.

The BPA-DualProof T composite sheet membrane uses a high-end, transparent PVC-membrane, which allows for a clear view of the freshly poured concrete and its bond with the BPA-DualProof Membrane System.

Therefore, any membrane damages or concrete voids that may have occurred during concreting can be easily detected and repaired.

ADVANTAGES OF THE COMPOSITE WATERPROOFING MEMBRANE

- Excellent application properties, overlaps can be either bonded with CEM805 (DualProof T/C), heat-welded or with the self-adhesive strip (DualProof A/A+)
- The DualProof membrane system can be easily and economically connected or thermally welded to existing sealing products and waterstops
- High ageing resistance and extremely durable barrier against (mechanical) stresses like radon, water pressure, etc.
- Economical and sustainable sealing solution for high quality application
- Can be used in a wide working temperature range
- Highly flexible waterproofing and crack bridging in case of concrete cracks caused by shrinkage through the formation of a mechanical bond with the freshly poured concrete
- Compatible with bitumen
- Transparent PVC-membrane allows for inspection of the concrete (BPA-DualProof T)
- The self-healing properties of BPA-DualProof S offer reliable protection as a post-applied membrane



PRODUCT VARIATIONS

BPA-DualProof T/C

COMPOSITE WATERPROOFING MEMBRANE

BPA-DualProof T/C is a full-featured PVC-sealing membrane co-extruded with our specially designed Barritex® PP-fleece.

The fleece forms a mechanical bond with the freshly poured concrete and prevents any water tracking between the DualProof Membrane and the concrete. DualProof is used for the waterproofing of foundations, basements, tunnels, garages and all other concrete constructions below grade.

BPA-DualProof is a highly effective and environmentally friendly alternative to bituminous products and coatings.

BPA-DualProof A/A+

COMPOSITE WATERPROOFING MEMBRANE

BPA-DualProof A/A+ is a full-featured TPO/FPO-sealing membrane co-extruded with our specially designed Barritex® PP-fleece. The fleece forms a mechanical bond with the freshly poured concrete and prevents any water tracking between the DualProof Membrane and the concrete.

DualProof is used for the waterproofing of foundations, basements, tunnels, garages and all other concrete constructions below grade.

DualProof is a highly effective and environmentally friendly alternative to bituminous products and coatings.

ACCESSORIES

BPA-CEMdicht 3 in 1

The mineral sealant slurry BPA-CEMdicht 3 in 1 is suitable for the sealing of connections between the DualProof Membranes and the reinforced concrete. It may also be used for the waterproofing of concrete walls.

BPA-CEM805

BPA-CEM805 is a one-component adhesive suitable for the sealing of overlaps.



BPA DualProof Components

- Inside and outside corners
- Pipe penetrations
- PVC Stripes
- Repair tape

FORM OF DELIVERY AND STORAGE

| | BPA DualProof C | BPA DualProof T | BPA DualProof A/A+ |
|--|-----------------|---|--------------------|
| Available roll sizes (width x length) | 1,50 x 20 m | 1,08 x 20 m 1,50 x 20 m 2,16 x 25 m | 1,50 x 20 m |

INNOVATIVE, TESTED AND APPROVED

Our products are independently tested and approved by bodies such as the British Board of Agrément (BBA), MPA Braunschweig, MPA Stuttgart, MPA Leipzig, DIBT (Germany), and Vattenfall Sweden. Our Composite Waterproofing Membrane BPA-DualProof complies with the DIN EN 13967 standard (CE-marking). A BDA-Agrément Certificate has recently been issued. Relevant test reports and accreditations are available on request.

Our quality management is certified in accordance with the worldwide accepted Standard DIN EN ISO 9001:2015. This certification guarantees the consistent, high quality of all BPA-products.

Our global success is based on our continuous strive for excellence and our continuous focus on improving construction techniques and performance by developing products that are easy to use and meet the performance criteria required to satisfy the most stringent construction standards worldwide. Due to this strong focus on developing high-quality systems and products we have been awarded a place in the TOP 100 Innovative Companies in Germany for two years in a row.



IN USE WORLDWIDE

For many years we've been active in the production and international sales of our innovative Composite Waterproofing Membrane System BPA-DualProof. Due to the simple and efficient application options products made by

BPA are first choice for the durable and fail-safe protection of below ground reinforced concrete constructions and tunnels worldwide.

Please find a small excerpt of our references below:



**Medical Centre Höchst
Frankfurt | Germany**



**Pump Station
Oberhausen | Germany**



**Industrial Building
Jegenstorf | Switzerland**



**Industrial- and
Administration Building
Fehraltorf | Switzerland**

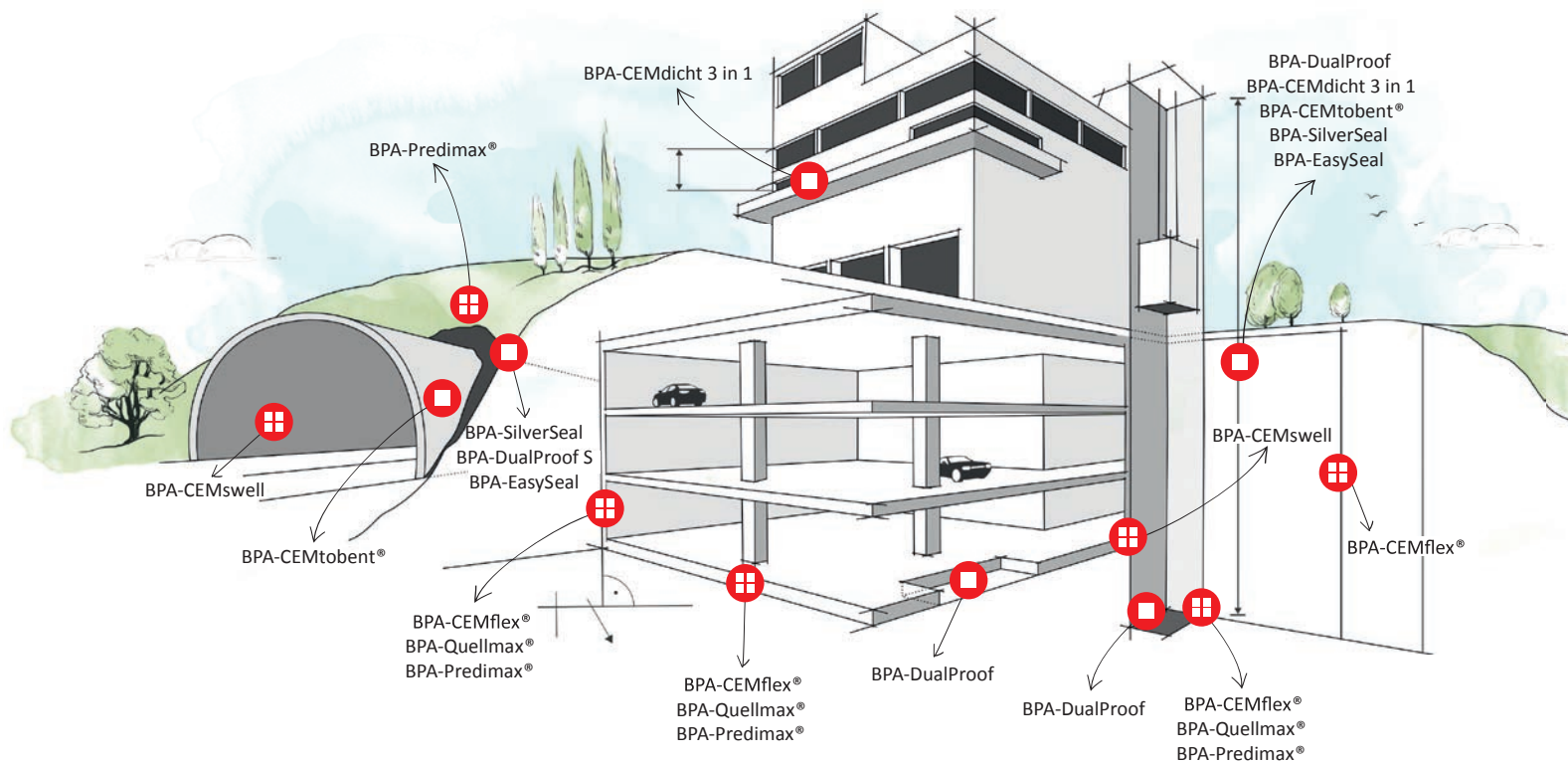


**Residential Complex
Bucheggplatz
Zürich | Switzerland**



**Haribo Administration Building
Grafenschaft | Germany**

FURTHER PRODUCTS AND THEIR FIELDS OF APPLICATION MADE BY BPA



 Joint Sealing

 External Surface Waterproofing



BPA
WATERPROOFING SYSTEMS

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