



Bitumen-Free Waterproofing Systems

Expert Proof / Expert Proof eco

EXPERTISE
WATERPROOFING

MC
BE SURE. BUILD SURE.

Bitumen-Free Waterproofing

Expert Proof and Expert Proof eco with EHS technology

Flexible Polymer-Modified Thick Coating Systems

An innovative polymer-based bonding technology brings a new perspective in building waterproofing sector. Expert Proof thick coatings are 100% bitumen-free solutions for waterproofing.

Expert Proof systems make it easier and faster. Thanks to special technology, it is possible to reduced substrate pre-treatment and surface finishing requirements, which result in saving time and minimized site costs. During bad weather conditions, Expert Proof thick coating substantially reduces the weather-related downtime.

Ideal for waterproofing jobs conforming to standards, for plinth sealing in splash water areas and as a barrier sealant or for the surface protection of mineral substrates of all kinds: Expert Proof waterproofing systems offer good adhesion, fast full drying and exceptional protection against water, rising damp and moisture penetration. Tensile bond tests on mineral substrates, metals and plastics yield values $> 0.4 \text{ N/mm}^2$, rising to $> 0.8 \text{ N/mm}^2$ on concrete. The adhesive strength exhibited by Expert Proof systems is thus higher than in the case of bitumen-based thermoplastic membranes.

Maximum yield thanks to reduced layer thicknesses

Expert Proof solutions with layer thicknesses of just 2–3 mm – without a fabric inlay – are sufficient to pass the water basin seal performance test. A layer thickness of 2 mm produces a theoretical air layer equivalent of diffusion of 200 metres for resistance against CO_2 penetration.

High sealing performance and fast full drying capability make both **Expert Proof** and **Expert Proof eco** ideal for waterproofing and protecting your concrete structures.

New elastomer hybrid skin (EHS) technology

Both **Expert Proof** and **Expert Proof eco** spread like a skin over the structure's substrate, providing it with a highly flexible, high-yield and exceptionally pressure-resistant membrane.





✓ **Good adhesion**

✓ **High flexibility**

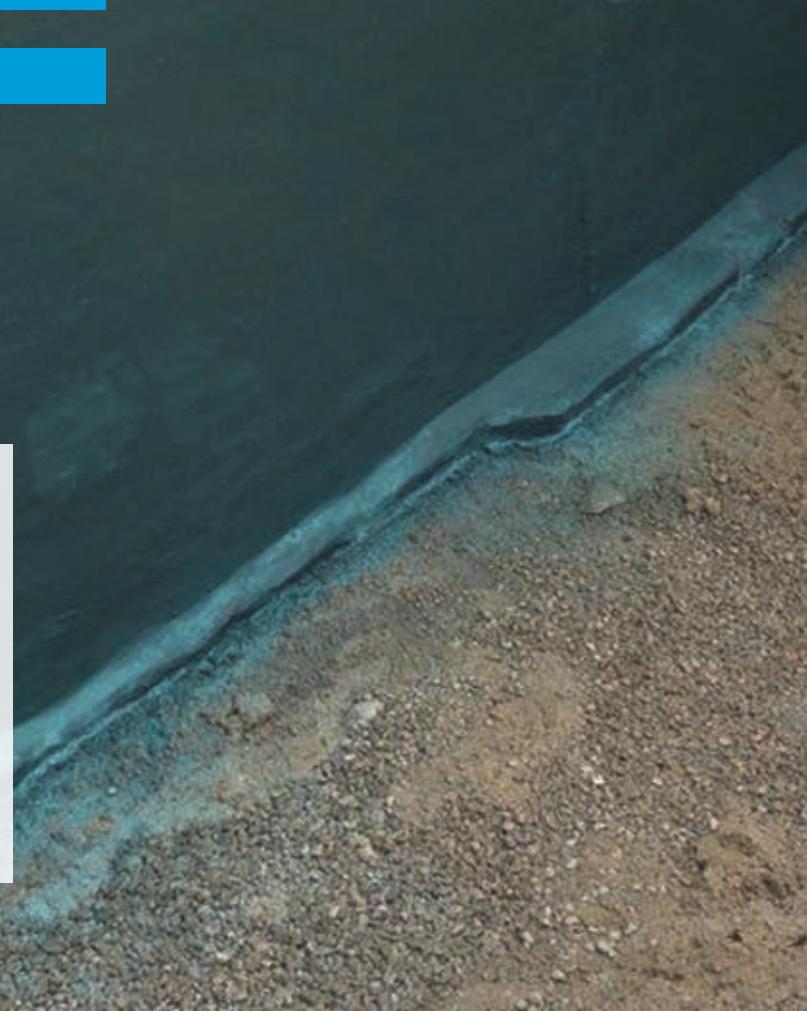
✓ **UV-stable**

✓ **Fast full drying, even in the cold**

✓ **Harmless to soil and ground water**

Your benefits:

- Economic use of materials and time saving
- Fast full drying with colour change as visual indication
- Seal remains intact even in the face of negative water pressure (construction phase)
- Extensively weather-immune application
- Environmentally sound as solvent-free



Waterproofing to the Highest Standards

Expert Proof – clear advantages over bitumen membranes

Outstanding performance

Tight schedules, site time pressures and poor weather conditions – if they all come at once, you need a material that will help you to cope.

In contrast to conventional bitumen-based waterproofing systems, Expert Proof offers high UV stability combined with very good compatibility with mineral products. It can be applied without a primer and offers outstanding crack bridging up to 2 mm without the need for a fabric inlay.

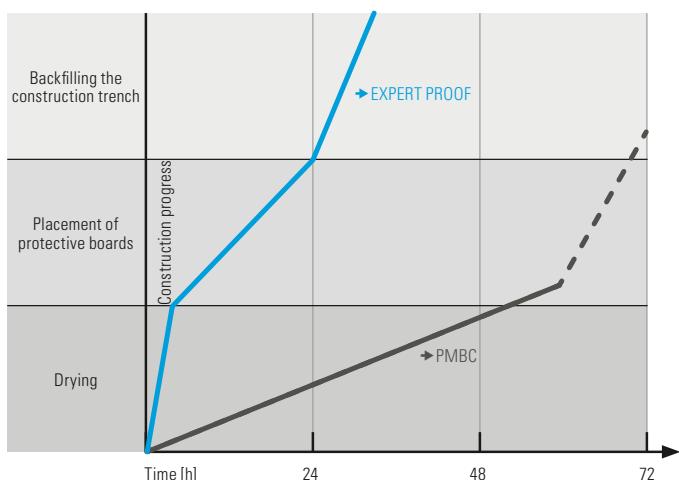
Expert Proof is also characterised by very good adhesion on different substrates, which means it can be used for a broad range of functions, including the waterproofing of vertical, horizontal and sloping surfaces, e.g. for tanking cellars, sealing slab floors and foundations, and refurbishing or upgrading old damp-proof membranes. It serves as an economical, easy-to-apply coating for old bitumen. And the overcoating of Expert Proof is also not a problem.

Gaining valuable site time

Expert Proof offers very good application properties in combination with a full drying profile that is largely temperature-independent. And it can even be sprayed in cold weather.

Expert Proof is already rainproof after just three hours, and after four hours it is ready to receive the adhesive-bonded drainage and insulation boards. And Expert Proof can be mechanically loaded within 24 hours. It is as flexible as a bituminous thick coating (PMBC), as tough and robust as waterproofing grouts and slurries, and offers fast full drying as well – so you can carry out the waterproofing on one day and then backfill the trench the next. With Expert Proof, problems disappear out of sight.

Fast backfilling





Your benefits:

- Rapid construction progress through fast full drying
- No primer required
- Crack bridging up to 2 mm
- Easy to apply for high-yield coverage
- Sprayable with standard spiral pumps

The Cost-Effective Hybrid Waterproofing System

Expert Proof eco – exceptionally versatile

High cost-effectiveness

“eco” stands for exceptionally economical: Compared to bitumen-based or other bitumen-free products, Expert Proof eco results in a better barrier against water vapour and CO₂ penetration, yet requires smaller layer thicknesses.

Fast and reliable even at low temperatures

The waterproofing compound exhibits a drying behaviour that is almost completely unaffected by temperature, which means it can even be effectively used in chilly weather conditions at temperatures around ≥ 5 °C. It dries through quickly and reliably, offering a visual indicator of process completion by turning a darker grey.

Resilient concrete protection

Thanks to its high resistance to UV, ageing and frost, Expert Proof eco is also suitable for use outdoors in the open air. The reactive seal is also harmless in its affect on water hygiene.

As a hybrid waterproofing membrane, Expert Proof eco is more effective than mineral waterproofing grouts or slurries, offers outstanding resilience and can be used as a surface protection compound for concrete (e.g. protection against chloride penetration). It has a very high diffusion resistance coefficient, which means Expert Proof eco effectively prevents the absorption of carbon dioxide, making it particularly useful in the prevention of concrete carbonation.

Expert Proof eco also meets the health and hygiene criteria of Germany's AgBB (Commission for the Health Assessment of Construction Products) and is thus suitable for interior applications.

Multiple application possibilities:

- Waterproofing of cellar walls, floor slabs, balconies and terraces
- Foundation waterproofing
- Surface coating in the visible plinth area
- Rehabilitation of old structural and roof membranes
- Provision of membranes between mortar layers for water features in garden and landscaping applications
- Fixing of protective and insulation panels



Your benefits:

- Waterproofing and surface protection in one product
- Attractive grey finishes
- No primer required
- Harmless in contact with soil and ground water
- Good adhesion even on metals and plastics
- Sprayable with standard spiral pumps

Bitumen-Free Waterproofing Systems

Expert Proof / Expert Proof eco

- Multifunctional application versatility
- High flexibility
- Building authority approval
- Hygienically harmless
- UV-stable

MC-Bauchemie Müller GmbH & Co. KG
Concrete Industry
Am Kruppwald 1-8
46238 Bottrop, Germany

Phone: +49 2041 101-50
Fax: +49 2041 101-588

CI@mc-bauchemie.com
www.mc-bauchemie.com

Contact details

