

KEMPEROL® Aqua Waterproofing

Uses

- As a waterproofing system in combination with Kemperol® Fleece for the waterproofing of wet areas (under tiles) such as Bathrooms/washrooms etc.
- As a waterproofing system for waterproofing of balconies, industrial kitchens etc. underneath the tiles.
- For new construction and remedial projects

Features

- One component
- Water vapour permeable
- Temperature and weather resistant
- Solvent free and decorative
- UV-proof
- Flexible

Composition

KEMPEROL® Aqua Waterproofing is an aqueous, copolymer based dispersion.

Pack sizes

20 kg.

Shelf Life

Can be stored unopened in a cool, dry, frost-free place.

Use by- see label on the pack/ COA

Properties

Form	liquid, one component
Colour	White

Rainproof* after [min] approx. 6 to 12 hours*

Can be walked on* after [h] approx.24
Hours*

Cured* after [d] approx. 3 *

Further coating after 1 day

Density 1.37 to 1.58
gm/cm³

Viscosity @ 23°C 15,000
to 90,000
mPas

Shore hardness A 65

Tear resistance Above 70
(Fleece 120) N/mm

Tear resistance Above 33
(Fleece 80) N/mm

Tensile strength (Fleece 120) 4.72 N/mm²

Tensile strength (Fleece 80) 3.51 N/mm²

Elongation at Break with

fleece Above 70%

Adhesive Strength 2.65 N/mm²

* Values obtained at a temperature of 23 °C - 50% rel. humidity. May vary according to weather conditions such as wind, humidity and temperature.

Application

Preparing the Substrate-

The concrete work substrate to be applied must be dry, sound, and free from any material that would hinder adhesion. All the undulations, cracks, holes in the concrete substrate should be filled with a mixture of epoxy primer and sand or using suitable repair mortar.

Apply material only when substrate and ambient temperatures exceed 10 °C. During application the surface temperature must be 3 °C above the dew point. If the dew point is not reached, a moisture film can form on the surface to be treated and cause separation (DIN 4108 - 5 Tab.1).

Priming

Before application of KEMPEROL® Aqua substrate must be primed according to the Priming recommendations.

Application:

Stir material thoroughly before use. For better workability KEMPEROL® Aqua can be diluted with potable water upto 7% & mix the material thoroughly before application. Over the primed substrate, approximately 2/3 of the KEMPEROL® Aqua waterproofing is first applied, the KEMPEROL® 120 fleece is rolled in with 5 cm overlapping with a perlon roller removing all bubbles. On the still liquid first layer pour on the approx. 1/3 KEMPEROL® Aqua waterproofing until it is completely saturated.

After curing on next day apply one coat of KEMPEROL® Aqua approx. 300 to 400 g/m².

In case of subsequent concrete screed or mortar is to be laid on KEMPEROL® Aqua Sprinkle Quartz Sand (0.7 to 1.2mm) in the top coat when it is still wet, ensure that Quartz Sand is covering KEMPEROL® Aqua completely without leaving any gaps and allow system to cure. After 5 days of curing you can lay a protection/ separation layer in the form of appropriate Geo textile fabric and over this layer you can lay subsequent protective concrete screed/mortar ensuring adequate and proper slop for effective drainage of water.

Total consumption of material with KEMPEROL® 120 Fleece including top coat is about 2.3 to 2.4 Kg/m².

For indoor Areas such as wet rooms/ washrooms, KEMPEROL® Aqua can be used with KEMPEROL® 80 Fleece. Total consumption of material with KEMPEROL® 80 Fleece including top coat is about 1.8 to 2 Kg/m².

Consumption may vary depending on porosity and nature of substrate.

Please note sealing of all core cut pipes should be done with KEMPEROL® Aqua using KEMPEROL® 120 Fleece also grouting of the core cut pipes should be done with suitable non shrink/ epoxy grout before Sealing the same with KEMPEROL® Aqua.

The material, ambient air and substrate temperature must be min. +10°C during application, the surface temperature must be 3 K above the dew point.

Connections to door and window elements etc. with a height of <15 cm (from upper edge

of coating) should have at least 5 cm of overlap.

When used as waterproofing membrane e.g. underneath subsequent tile work, proper alkali protection must be ensured when cement products (e.g. tile adhesive) are being used. In order to do so, on to KEMPEROL® Aqua waterproofing membrane (must be atleast 5 days old) approx. 400 to 500 gm/m² of KEMPERTEC® EP Primer must be rolled on and Quartz Sand strewn onto it.

PPE

Personal protective equipment should be worn. Always clean tools immediately after use with water.

Important Notice

The BG-Chemie technical data sheets must be observed during application.

General information

Changes to the colour caused by weather conditions or UV rays do not influence the technical parameters. The times given above

are reduced with higher and increased with lower ambient and substrate temperatures.

KEMPER SYSTEM products must not be mixed with other manufacturers' products.

Only for commercial use.

Our technical data sheets / technical information and application instructions reflect the current level of knowledge in our company and the experience with our products. In each case, the new edition supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice. The latest version can be retrieved from the KEMPER SYSTEM Login section. When using our products, a detailed, object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults, and this only if our relevant product has been used and applied according to the instructions in our technical data sheets. Correct application of our products therefore falls entirely within the scope of liability and responsibility of the user (contractor). Our products are sold exclusively on the bases of our conditions of sale and delivery.

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