

KEMPEROL® 1K

Waterproofing

Uses

- As a waterproofing system in combination with KEMPEROL® Fleece for the waterproofing of surfaces such as ...
Roof, balconies, open terraces etc.
Waterproofing of wet areas (under tiles) in bathrooms, Commercial kitchens etc.
Waterproofing of podium slabs, AHU rooms, utility room, service floor areas etc.
- For new construction and remedial projects
- Useful for both interior and exterior applications

Features

- UV-resistant
- Cold liquid applied
- Water vapour permeable
- Can be walked on for maintenance
- Solvent-free
- 1-component
- Cool Roof system
- Degree of Solar Reflectance 86%
- Ready for use
- Light-stable
- Flexible

Composition

A highly flexible, solvent-free single-component polyurethane based waterproofing system

Pack Sizes

15 kg / 25 Kg in a container

Shelf Life

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

Use by: see label on pack.

Properties

Form	Liquid
Standard colour	White
Workability time*	approx. 30 min
Rainproof after*	approx. 5 h
Can be walked on after*	approx. 12 h
Cured after*	approx. 1-2 d
Further coating after*	approx. 1 d

Specific gravity	1.25 to 1.35 g/m ³
Viscosity	12000 - 18000 mPas
Roof Slope	S1-S4 (<5 to >30)%
Fire reaction	E
External fire performance	B _{ROOF} (t1)
Hardness shore A*	70
Tear resistance*	41.4 N/mm
Tensile strength with fleece	8.625 N/mm ²
Elongation at Break with Fleece	83.5 %
Adhesive Strength	2.45 N/mm ²

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

Laying

Preparing the substrate

The substrate must be dry, sound and free from any material that would hinder adhesion. Before application of KEMPEROL® 1K substrate must be primed according to the priming recommendations.

Only apply when the substrate and ambient temperatures are > +10 °C.

Application

Stir material in the container thoroughly before use. For better workability KEMPEROL® 1K can be diluted with potable water upto 5% and mix the material thoroughly before application.

Over the prime substrate, approximately 2/3 of the KEMPEROL® 1K 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® 1K waterproofing until it is completely saturated

After curing on next day apply one coat of KEMPEROL® 1K approx. 300 g/m²

Total consumption of material with KEMPEROL® 120 Fleece including top coat is about 2.3 to 2.7 Kg/m²

Consumption may vary depending on porosity and nature of substrate.

The material, ambient air and substrate temperature must be between min. +10°C and max. +40°C at a relative humidity of < 85%. 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 1k waterproofing membrane (must be at least 7 days old) approx. 400 to 500 gms /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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