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KEMPEROL

Solvent-Free

waterproofing and surfacing

KEMPER SYSTEM
A KEMCO Company

KEMPEROL 2K-PUR

SOLVENT-FREE WATERPROOFING

A breath of fresh air for new-build or repair

Kemperol 2K-PUR is the UK's only solvent-free, cold liquid-applied waterproofing - increasingly the preferred method of waterproofing flat roofs, being more reliable, more durable and having none of the fire risk associated with traditional torch-applied bituminous products.

As with all Kemperol waterproofing, the inherent strength and durability of 2K-PUR waterproofing derives from a polyester reinforcing fleece which is totally impregnated with solvent-free resin to create a seamless membrane that will bond to a wide range of substrates. It also has the advantage of being applied 'wet on wet', giving very strong inter-coat adhesion and rapid application times. Permanently elastic, it will bridge cracks and seams and is able to accommodate difficult details and protrusions with ease.

Why use Kemperol solvent-free waterproofing

2K-PUR retains the renowned performance and durability of Kemperol waterproofing products, but with some unique advantages:

No need for evacuation during repair due to fumes.

Odourless application

Solvent-free 2K-PUR is odourless and can be safely applied, even in unvented areas, without protective equipment. In occupied buildings, and particularly those with air conditioning intakes, this means there's no need for evacuation whilst repairs are undertaken. For schools, apartments or hotels through to factories and offices this lack of interruption can save costs, maintain productivity, minimise disruption and make project scheduling far easier.

Kinder to the environment

Some organisations actively favour products that are less harmful to the environment. As the UK's only solvent-free, cold liquid-applied waterproofing system 2K-PUR offers a real alternative to traditional solvent-based products without any loss of performance.

No risk of airborne contamination with solvents.

No airborne toxins

Some manufacturing processes, particularly in food processing and pharmaceuticals industries, are sensitive to airborne contamination by solvents. In a number of known cases this has lead to batch failure and even product recall – a potentially costly process that can be avoided using solvent-free 2K-PUR.

Certification

BBA BRITISH BOARD OF AGREMENT CERTIFICATE No. 08/4388 EOTA DIN

Installation

Kemperol 2K-PUR is installed only by fully trained, authorised contractors.

The best choice for repair

For occupied buildings, the odourless nature of solvent-free Kemperol 2K-PUR gives greater flexibility, as the repair programme can be scheduled cost-effectively without having to compromise efficiency to work around patterns of building occupancy or production, as is normally the case using solvent-based materials, when evacuation or shutdown is usually necessary.

The highly versatile nature of 2K-PUR, which bonds to most existing surfaces, also means permanent, reliable repairs are achieved without having to remove or dispose of the failed materials – saving on both time and cost.

Solvent-free Kemperol was used to repair the corridor roof on this school in Lancashire without disrupting classes.

And because the repair is a single-stage process – no waiting for the base coat to dry as with other liquid waterproofing systems – large areas can be completely finished in a single day and will be rain-resistant in just 30 minutes.

The best choice for new-build

BBA-certified 2K-PUR, the only solvent-free cold-liquid waterproofing available in the UK, offers all the benefits of Kemperol in an odourless, environmentally-friendly formulation that achieves the highest performance ratings possible under the European Standard ETAG005. It can be specified with confidence on roofs, balconies, podiums, walkways, carparks… even green roofs and internal wet rooms.

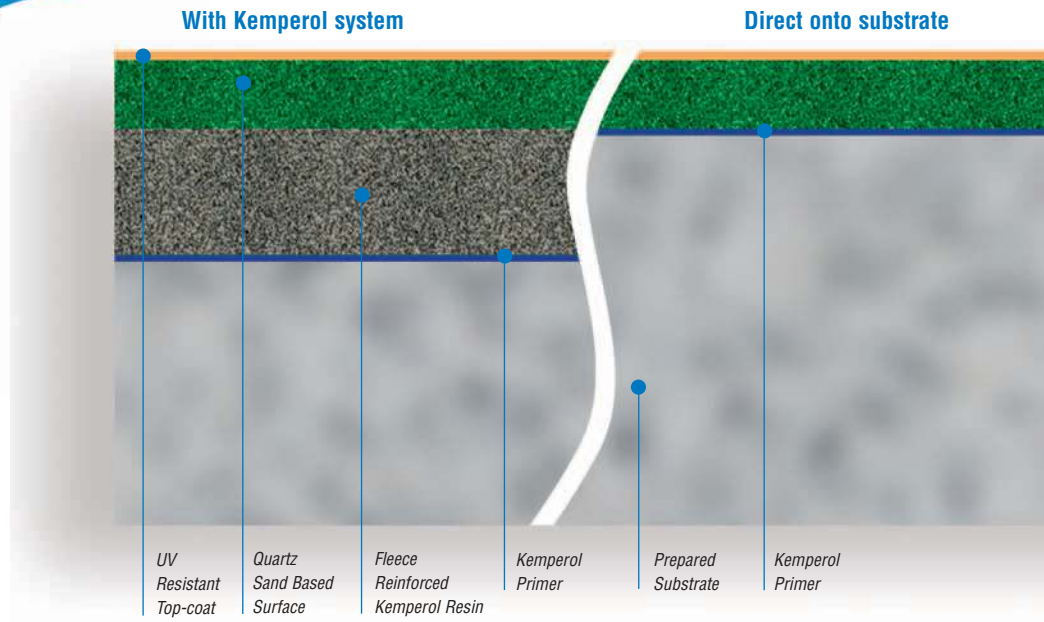
Bonding directly to the substrate it forms a seamless, reinforced membrane that will withstand foot traffic, providing a robust and durable surface that resists tears and is immensely durable – accredited with an expected working life of at least 25 years under ETAG 005 compared to the 10 years typical for other cold liquid waterproofing systems.

And with its self-terminating properties, reduced weather dependence due to single stage installation and ability to bond onto primed, fresh concrete after just 7 days, Kemperol 2K-PUR can shave weeks off typical build programmes.

With its BBA certification, solvent-free Kemperol is perfectly suited to new-build flats and apartments.

KEMPEROL TC

SOLVENT-FREE SURFACING



For applications subject to regular foot or vehicular traffic, Kemperol TC is a solvent-free coating system that can be applied onto the 2K-PUR waterproofing membrane to give an ultra hard-wearing, slip-resistant surface.

Used for both external and internal surfacing – car parks, balconies and walkways through to warehouse floors – its anti-slip surface is resin based with a quartz-sand wearing course that can be specified in standard or bespoke (RAL/BS) colours for decorative or functional effect.

An optional UV-resistant topcoat is available and, as well as being compatible with all Kemperol waterproofing systems, it can also be applied onto existing substrates making it ideal for both new-build or refurbishment.

Being solvent-free it is highly suited for internal use, as projects can be undertaken without the disruption caused by closure or evacuation. It is easily and rapidly applied – curing even in low, winter temperatures – with foot traffic possible within just an hour of installation.

Colour options

Coloured kiln-dried quartz sand can be incorporated into all Kemperol systems to enhance durability and decorative appeal.

Standard Colours:

Actual colours

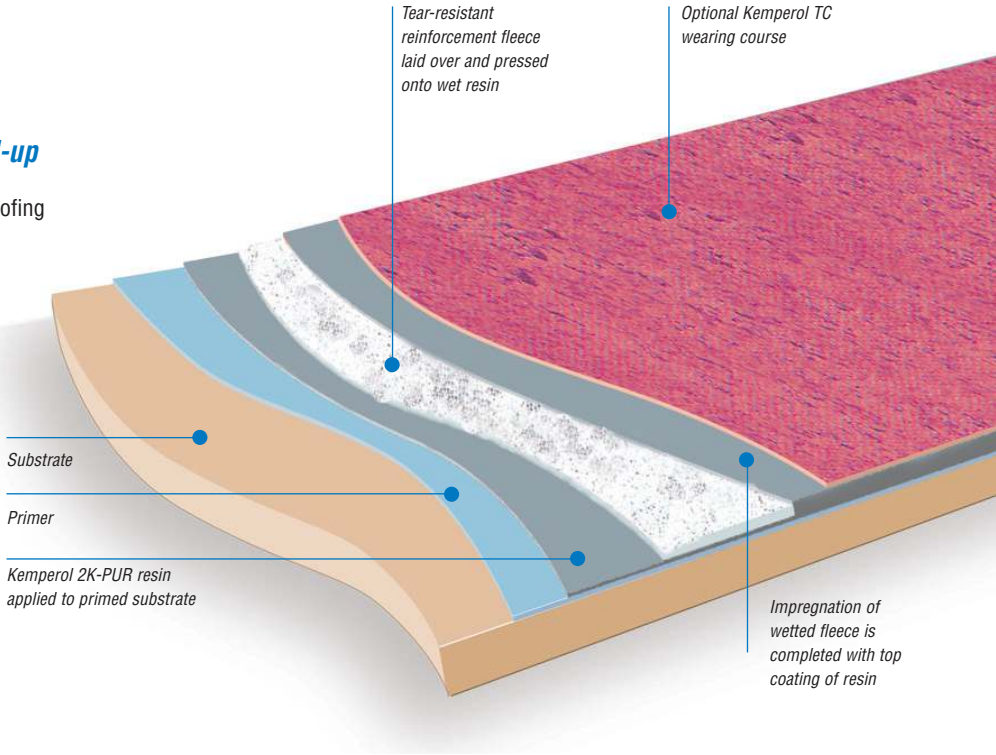
Brick Stone Jade Slate

Bespoke Colours: A full range of bespoke colours can be made to specification including RAL and BS references

Example colours

Solvent-free Kemperol: system build-up

- UK's only solvent-free, liquid-applied waterproofing
- British Board of Agrément (BBA) certified
- New-build or repair, internal and external
- No need to remove existing roofing material
- Applies onto wide range of substrates
- Odourless, no airborne contaminants
- Kinder to the environment
- Excellent elasticity and tensile strength
- Polyester fleece extremely tear-resistant

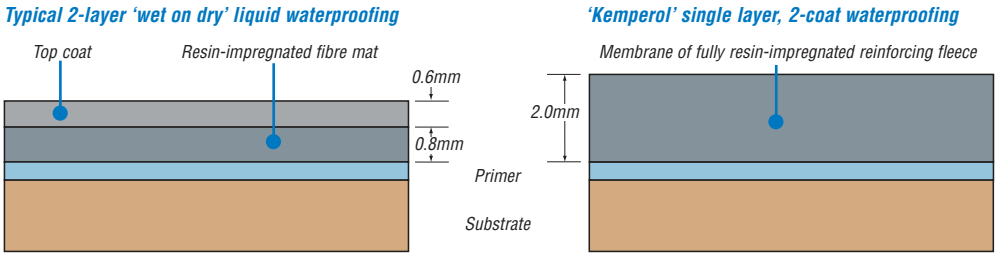


Why 'Wet on Wet' Kemperol outperforms all others

Kemperol is the only leading brand of cold liquid waterproofing that's applied 'wet on wet', a method that consistently outperforms all other 'wet on dry' systems that use a base coat, which must be allowed to dry before the finishing coat can be applied. This effectively creates a lamination where the performance of the whole roof is dependent on the performance of each relatively thin application, as well as the bonding between the two separate layers.

Creates a single, integrated membrane

Because Kemperol is applied 'wet on wet', the base and surface are integrated as a single, chemically-bonded layer with no laminations. This forms a seamless, inseparable membrane of great strength that avoids all the risks of poor adhesion, 'thin spots' or even delamination that can be the downfall of 2-layer, 'wet-on-dry' systems.
And unlike fibre mat, which tears easily, the Kemperol polyester fleece is extremely tear resistant.



Better performance… and saves time too

With no need to wait for a base coat to dry, projects are completed more rapidly, also reducing contractor costs and minimising disruption. And because saturation of the fleece with resin is clearly visible there's no need to use a depth gauge (recommended for 'wet on dry') to ensure the minimum surface depth has been achieved. A single stage process that's quicker, easier, more reliable… and foolproof.

ETAG 005	Typical wet on dry systems	ALL Kemperol systems
Dried film thickness	1.4mm	2.0mm - 2.5mm
Expected working life	min 10 years	min 25 years
Imposed load rating*:		
soft substrate	P1	P4
hard substrate	P2	P4

Comparison table: ETA Categorisation

* P1 lowest
P4 best

Solvent-free Kemperol – the versatile choice

Kemperol is the UK's only solvent-free, cold liquid-applied waterproofing and surfacing system.

Offering all the virtues of solvent-based systems, it's a more environmentally-friendly solution that has unique commercial advantages too.

There's no need to evacuate premises due to solvent fumes and no risk of contamination in sensitive food or pharmaceutical manufacturing processes.

And with its rapid installation and curing times, prepared areas can be returned to full functionality within just 24 hours.

Whether for new build or repair, solvent-free Kemperol waterproofing and surfacing now offers far greater choice and versatility, with the assurance of over 30 years proven performance in the most demanding applications.

Kemperol 2K-PUR on an inverted roof in central London

Technical support, service and installation

All Kemperol products are installed only by fully trained, independent contractors.

A comprehensive advisory service is available to discuss your project and so ensure correct product selection and specification.

Bespoke NBS specifications are also available.

For more information please contact our technical team on **01925 445532** or visit **www.kempersystem.co.uk**

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