



## KEMPEROL 2K-PUR

### Description

Kemperol 2K-PUR is solvent-free and odourless, making it suitable for use in areas where solvent-based products would be disruptive. A 2-component polyurethane-based product, it forms a permanently elastic, seamless, yet highly permeable membrane that is both durable and tear-resistant.

### Uses and Applications

2K-PUR can be used on a wide range of applications, offering the strength and versatility of solvent-based products but with the advantage of a more environmentally-friendly composition. It is particularly suitable for use on occupied buildings that would be sensitive to a solvent-based application, such as schools, hospitals or food factories, allowing remedial work to take place without the need for evacuation or closure.

- Sensitive areas such as schools, public places and food manufacturing plants
- Roofs
- Balconies
- Terraces
- Podiums
- Gutters
- Applications where policies favour the use of the most environmentally friendly products
- Complex detailing
- Fountains
- Floors of boiler rooms/control rooms

### Advantages

- Application exclusively by trained and approved contractors
- Solvent-free
- Odourless
- Cold-applied liquid polymer
- Fully reinforced
- Fully bonded
- Seamless
- UV stable
- Vapour permeable
- Excellent elasticity and tensile strength

### Performance

- Highly durable and long lasting
- Weather resistant after 30 minutes
- Suitable for normal maintenance foot traffic

### Approvals and Authority

European Technical Approval Certificate No ETA-03/0044  
EXT.FAA fire rating to BS476 Part 3 1958

NBS specifications are available for the following applications

- J31 110 Roof Coatings
- J31 120 Warm Roof Coatings
- J31 130 Inverted Roof Coatings
- M12 110 Resin Flooring

TECHNICAL INFORMATION

## System Information and Application

The Kemperol 2K-PUR system comprises a 2-part polyurethane resin applied onto a primer and reinforced with a polyester fleece. Optional decorative wearing courses can be applied.

### Kemperol 2K-PUR System Build up

- Prepared Substrate
- Kemperol Primer
- Kemperol 2K-PUR Resin
- Polyester Reinforcing Fleece
- Kemperol 2K-PUR Resin
- Optional Decorative Wearing Course

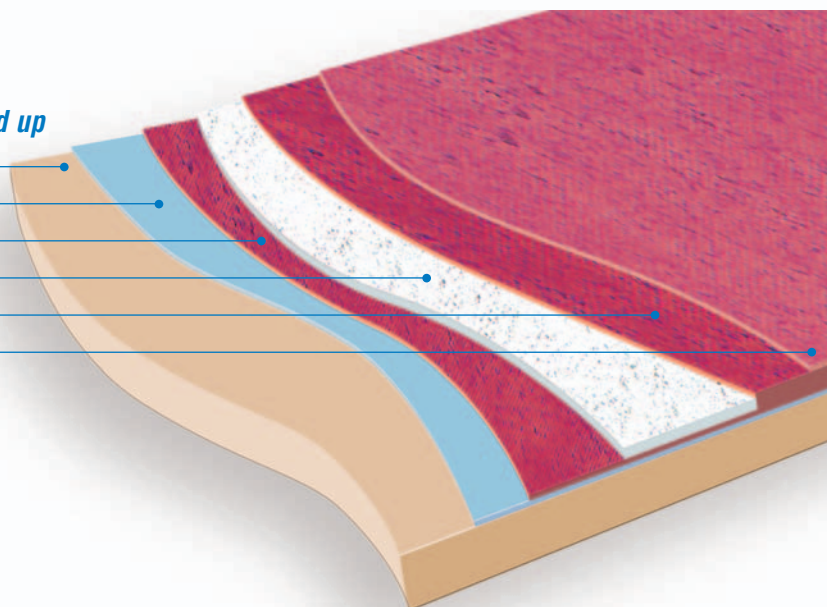


Table 1: Priming Table

SUBSTRATE	KEMPEROL D PRIMER	KEMPEROL R PRIMER	KEMPEROL EP PRIMER
<i>Bituminous roof sheet</i>	✓	✓	✗
<i>Asphalt</i>	✓	✓	✗
<i>Concrete, screed</i>	✓	✓	✓
<i>Single ply membrane</i>	!	!	!
<i>Brickwork</i>	✓	✓	✗
<i>Glazed/Non-glazed tiles</i>	!	!	✓
<i>Glass</i>	!	!	✓
<i>Copper</i>	✓	✓	✗
<i>Lead</i>	✓	✓	✗
<i>Wood panels, plywood, chipboard, OSB</i>	✓	✓	✗
<i>Polyurethane insulation boards (refer to Kemper for other insulating materials)</i>	✓	✓	✗
<i>Aluminium, galvanised steels, zinc</i>	✓	✓	✗
<i>Asbestos tiles and profiled sheets</i>	✓	✓	✗

Key: ✓ Suitable ! Individual test necessary ✗ Not applicable

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## ***Substrate Preparation***

Kemperol 2K-PUR can be applied to most commonly occurring substrates.  
See Table 1 for appropriate primer to use.

Kemperol 2K-PUR must be applied in accordance with the manufacturer's instructions.

Substrates to which the coating is to be applied must be dry, clean and free from loose particles, paint, grease and oil or other contaminants which may affect the adhesion of the system.

Substrates should also be free from physical defects such as cracks, joints, insecure sheets etc. Any such deformities should be repaired prior to application, in accordance with the manufacturer's instructions. The product is designed to bridge cracks up to 2mm.

When renovating old roofs, blisters must be split open, pressed down and sealed, and cracks and small surface defects made good.

Install any new edge trim as required.

The substrate should be primed with the appropriate primer, in accordance with the manufacturer's instructions.

## ***Priming***

Primers are applied by brush or roller to seal the substrate prior to application of the Kemperol 2K-PUR resin. Typical coverage rate in each case is 0.3kg per m<sup>2</sup> depending on substrate porosity and profile.

## ***Waterproofing***

Prior to application to the main roof area, any protrusions and upstands are to receive the waterproofing resin and fleece first. Refer to Kemper System standard details for further guidance on methodology.

The mixed Kemperol 2K-PUR resin is applied by roller at a coverage rate of 3 kg/m<sup>2</sup> with Kemperol 165 Fleece. Coverage will vary slightly depending on complexity of details.

Two-thirds of the resin is applied first and Kemperol Fleece is embedded and saturated. The remaining one-third of the resin is applied while the first application is still wet. All fleece sections should overlap by a minimum 50mm and where possible, the minimum upstand height should be 150mm.

The waterproofing should be applied so as to complement any cavity tray or other waterproofing interface detail.

The system is rainproof after 30 minutes, can be walked on after 6 hours and is fully cured after 3 days depending on ambient conditions. If ambient temperatures are below 10°C, add Kemperol 2K-PUR Accelerator.

With increasing temperatures the pot life of the mixed resin is reduced.

Work must not be carried out if rain is imminent and the ambient temperature at the time of application must be between 5°C and 35°C. The temperature of the substrate should be at least 3°C above the dew point. Relative humidity should be below 85%. Site handling and mixing instructions are available on request.

## ***Decorative Wearing Course***

A hard wearing decorative course can be applied, providing additional protection and allowing colour options to be considered.

## Product Information

SYSTEM COMPONENTS	TYPE	PACK SIZE OPTIONS
Kemperol 2K-PUR	Tin	12.5kg (component A 10kg component B 2.5kg) 5kg (component A 4kg component B 1kg)
Kemperol 2K-PUR Accelerator	Pack	80 gms; 40 gms
Kemperol 165 Fleece	Roll	50m x 105cm      50m x 26.25cm 50m x 70cm      50m x 21cm 50m x 52.5cm    50m x 10.5cm 50m x 35cm
Kemperol Reinforcement Foil	Roll	50m x 15cm
Kemperol D Primer	Tin	5kg; 3kg; 1kg
Kemperol R Primer	Tin	3kg; 1kg
Kemperol EP Primer	Tin	10kg; 3kg; 1kg
MEK Cleaning Agent	Tin	9kg

*A full range of tools and accessories is also available*

The information contained herein is correct to the best of our current knowledge, but is to be regarded as non-binding recommendations, not necessarily relevant to specific customer requirements. The onus is on the customer to check this information with regard to suitability in a particular situation. More specific, project-based advice is available from the manufacturer. Application of our products is beyond our control and is therefore the sole responsibility of the customer.

Our products are sold exclusively on the basis of our conditions of sale and delivery.

This technical information supersedes and renders invalid all previous editions.



Kemper House, Mill Lane, Winwick Quay, Warrington, Cheshire WA2 8RJ

Tel: **01925 445532** Fax: **01925 575096** Email: [enquiries@kempersystem.co.uk](mailto:enquiries@kempersystem.co.uk) Web: [www.kempersystem.co.uk](http://www.kempersystem.co.uk)

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