

## KEMPEROL V210

### Description

Kemperol V210 is a 3-component, polyester-based system that forms a permanently elastic, seamless, yet highly permeable membrane. Extremely durable and tear-resistant, it can accommodate structural details and penetrations without the need for additional mechanical fixings.

### Uses and Applications

V210 is suited to a wide range of applications, typically flat-roof waterproofing, and may be applied over existing materials and in extreme situations when other methods are likely to fail.

- roofs
- balconies
- terraces
- podiums
- gutters
- complex detailing
- fountains

### Advantages

- Application exclusively by trained and approved contractors
- Cold-applied liquid polymer
- Fully reinforced
- Fully bonded
- Seamless
- UV stable
- Vapour permeable
- Excellent elasticity and tensile strength
- Root resistant – ideal for “green” roofs
- Approved for use in zero pitch situations

### Performance

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

### Approvals and Authority

British Board of Agrément Certificate No 95/3139  
 European Technical Approval Certificate No ETA-03/0025  
 Factory Mutual (FM) Approval No 0D646.AM  
 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

## System Information and Application

The Kemperol V210 system comprises a 3-part polyester resin applied onto a primer and reinforced with a polyester fleece. Optional talc finish or polyurethane topcoat are available and decorative wearing courses can be applied.

### Kemperol V210 System Build up

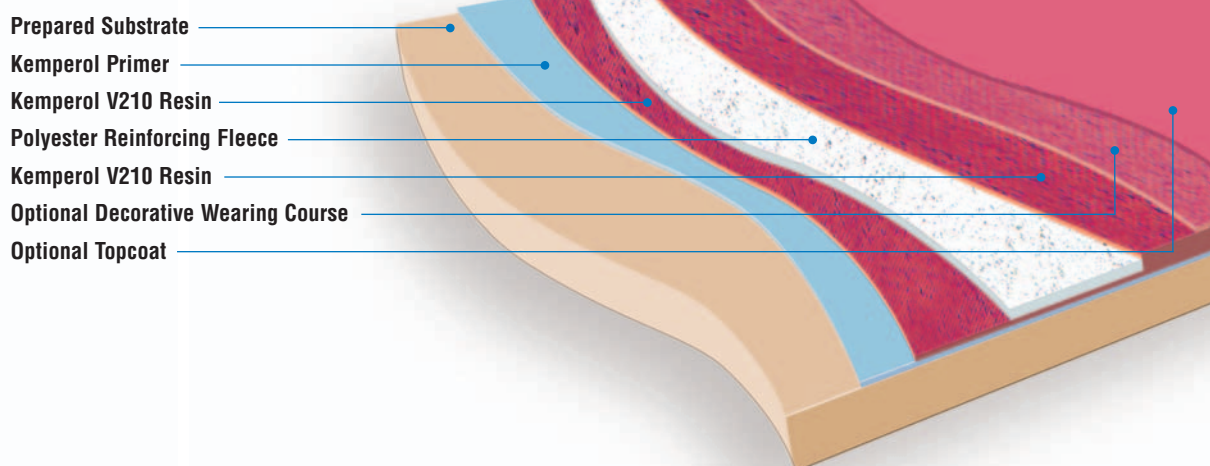


Table 1: Priming Table

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

Key: ✓ Suitable ! Individual test necessary X Not applicable

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## ***Substrate Preparation***

Kemperol V210 can be applied to most commonly occurring substrates.

See Table 1 for appropriate primer to use.

Kemperol V210 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 asphalt and felt roofs, blisters must be split open, pressed down and sealed, and cracks and small surface defects made good.

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 V210 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 V210 resin is applied by roller at a coverage rate of 3.4 kg/m<sup>2</sup> with Kemperol 200 Fleece or 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 conditions. If ambient temperatures are below 10°C, add Kemperol Cold Activator to Component B. If temperatures are above 25°C, add Kemperol Inhibitor to Component B.

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.

## ***Optional Topcoat***

A Kemperol clear (polyurethane) topcoat can be applied giving additional protection.

## Product Information

SYSTEM COMPONENTS	TYPE	PACK SIZE OPTIONS
Kemperol V210	Tin	50kg (component A 23.4kg component B 25kg component C 1.6kg) 20kg (component A 9.4kg component B 10kg component C 0.6kg)
Kemperol Cold Activator	Tin	0.5kg; 0.2kg
Kemperol Inhibitor	Tin	0.6kg; 0.3kg
Kemperol 200 & 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
Kemperol Talc	Tin	25kg
Kemperol Topcoat	Tin	10kg

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.



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