CI/SfB
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October 2007

KEMPEROL

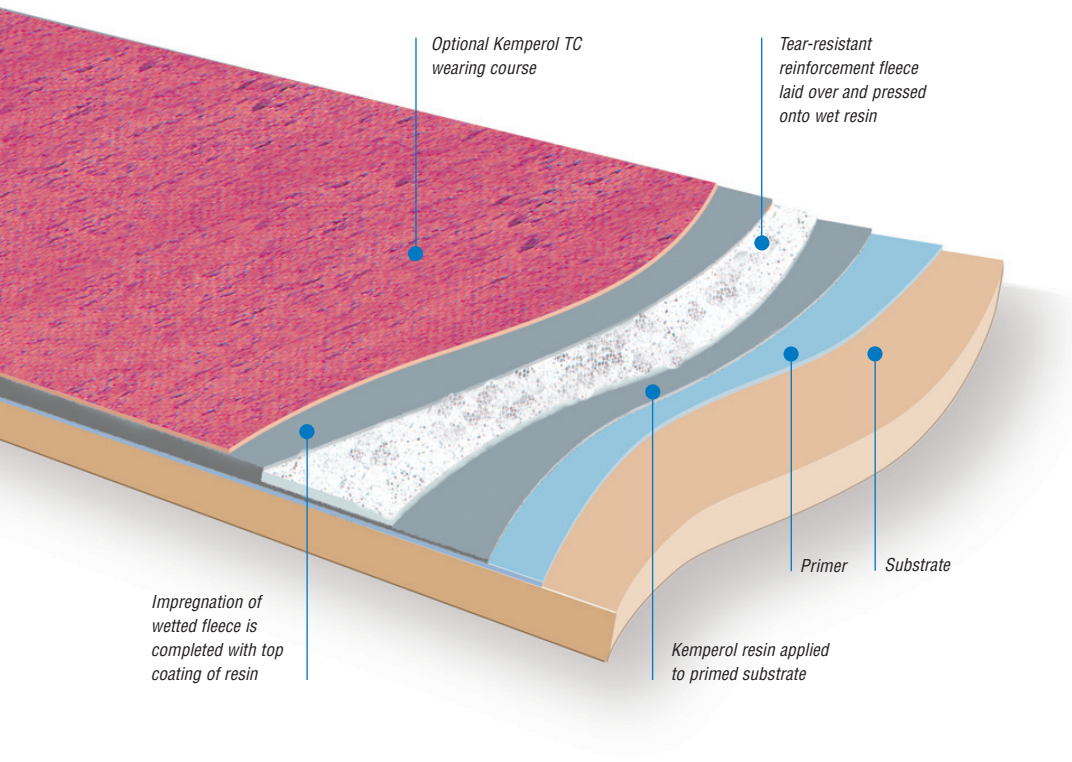
cold applied liquid waterproofing

The Housebuilders Choice

KEMPER SYSTEM
A KEMCO Company

KEMPEROL
solvent-free waterproofing

saves on time and costs



When building flats or apartments, Kemperol cold liquid waterproofing can seriously improve your profitability.

It is quicker, applies 'wet on wet' and its innovative 'interim floor waterproofing' can shave weeks off your **total** build programme.

The way it's applied also helps overcome many traditional obstacles to faster completion.

It is absolutely reliable, more versatile and durable than other methods of waterproofing and has over 40 years proven performance. Installed only by approved contractors it carries up to 20 years warranty and is ETA and BBA certified.

Housebuilders use Kemperol waterproofing for good reason – it is a superior product that can genuinely improve profitability.

Kemperol waterproofing:

A reinforcing fleece is saturated with liquid resins, applied wet-on-wet, to form a strong, seamless membrane 2mm thick that self-bonds to a wide range of substrates and has a minimum expected working life of 25 years.

How Kemperol shaves weeks off build times…

• Earlier access for finishing trades

Interim floor waterproofing' is an innovative build method for multi-storey apartments, pioneered with some of the UK's leading housebuilders, where intermediate floors are waterproofed to allow access for finishing trades **weeks** before the building structure reaches roof level, saving up to two months on a typical build programme.

• Less weather-dependent

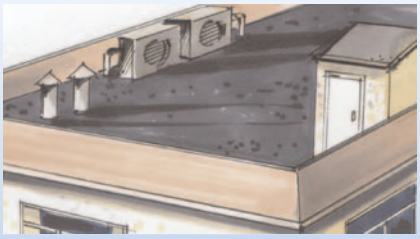
– Kemperol is applied 'wet-on-wet', so surfaces can be waterproofed and finished on the same day. With other systems the base coat has to dry before the top coat is applied, normally making this a 2-day process, with the risk that rainfall might hold up completion. Delays of more than 7 days often mean the surface must be re-primed.

• More rapid installation

– Because of its 'wet-on-wet' application and ease of installation, Kemperol is one of the most rapid waterproofing systems available – especially where penetrations or other complex details are present. On podiums, unlike many other systems, the upstands can be completed before the surface is waterproofed, allowing this final stage to be quickly finished once the area is cleared and the scaffolding removed.

Flat roofs

Kemperol is a tough, reinforced, yet permanently flexible waterproofing membrane that bonds to the substrate for a long-lasting, reliable finish.



Applied ‘wet on wet’, large areas can be finished in a single session giving a membrane that’s typically 50% thicker than ‘wet-on-dry’ systems for a durable, UV-resistant surface that meets the highest ETA load category (P4) on hard or soft substrates. Being seamless it avoids the glued or welded joints of other systems, resulting in an ETA-certified ‘expected working life’ of more than 25 years.

Upstands and penetrations

Because Kemperol bonds direct to the substrate, upstands and penetrations are waterproofed easily and reliably without the flashings, mastics or mechanical fixings needed for single-ply, felt or asphalt roofs.

As well as being quicker to install, because Kemperol bonds directly to the substrate it is a far more reliable and durable solution than other, more vulnerable methods of termination. These can be susceptible to the movement, weathering and mechanical damage that make this the most common cause of failure on flat roofs.

Balconies, terraces and walkways

Kemperol waterproofing and surfacing products come in a range of textures and colours for trafficked areas and offer better design freedom compared with traditional finishes.

A wide range of slip-resistant surfacings for trafficked areas can be applied onto Kemperol waterproofing membranes to form a fully integrated system that is hard wearing and cleanable. Rapid curing as well as solvent-free products are available and all can be sealed and finished with a UV-resistant topcoat.

Green Roofs

The inherent root-resistance of Kemperol means green roofs can be constructed without the need for a separate root barrier.

Warm, inverted or cold roofs can be specified as green roofs using Kemperol waterproofing. Because these are compatible with all green roof build-ups, specifiers have no restrictions on their choice of drainage and filtering systems.

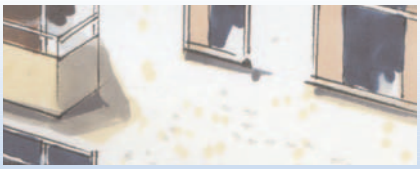
Internal wet rooms

The floors of showers, saunas and other wet rooms can be waterproofed using solvent-free Kemperol without disrupting access for other internal trades, as happens with solvent-based products.

Because it is solvent-free, Kemperol does not generate the fumes and odours that prevent other trades working inside the building during application and curing, avoiding interruptions to the build programme and the scheduling problems this creates. Ceramic tiles or other decorative finishes can be applied directly onto the membrane on completion.

Interim Floor Waterproofing

Waterproofing interim floors on multi-storey buildings allows finishing trades to start work at the lower levels whilst construction above continues, saving several weeks on total build times.



A membrane of Kemperol can be installed onto any interim floor, completely waterproofing the areas below, so allowing full access for finishing trades. Capable of being installed in a single day, Kemperol easily withstands foot traffic and on completion of the project is simply screeded prior to finishing.

Fountains and ponds

For water features and wet landscaping, Kemperol is a seamless waterproofing membrane that is permanently elastic, durable and highly tear-resistant.

Because Kemperol bonds to the substrate and is seamless, it moulds perfectly to the contours of the water feature to provide an attractive, complementary self-finish or can be tiled or otherwise surfaced.

Car parks

Kemperol waterproofing and surfacing can be used for both internal or external ramps and car parks giving an ultra hard-wearing, skid-resistant surface for heavily trafficked areas.

Surfaced areas can be colour coded to delineate parking bays or create floor markings for functional, decorative or safety purposes. Kemper anti-carbonation coatings give a decorative finish to concrete walls and protect against corrosion caused by ingress of chloride ions.

Podiums, plazas and decks

Kemperol saves time as upstands can be waterproofed ahead of the deck itself, whilst the option of mechanised application using a ‘Kemperator’ greatly speeds installation onto large areas.

Kemperol allows greater build versatility because it bonds directly to the substrate. Upstands and details are waterproofed ahead of the deck, which can be completed when the risk of membrane damage from scaffolding and building activity has passed. The robust, self-terminating properties of Kemperol also ensures a high resistance to damage during this period.

Waterproofing products

Kemperol V210

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 mechanical fixing.

Balconies • Roofs • Terraces/podiums • Walkways

Kemperol 2K-PUR (solvent-free)

A solvent-free, 2-component polyurethane-based product that offers the performance benefits of solvent-based waterproofing systems and is particularly suitable for internal areas or where solvent fumes might be otherwise disruptive.

Balconies • Roofs • Terraces/podiums • Walkways • Internal wet rooms

Kemperol BR

The preferred solution for car park decks, a 3-component system offering seamless protection for the entire substrate, including expansion joints. It can be covered with bituminous macadam or Kemperol surfacing products.

Car park decks • Ramps

Surfacing products

Kemperol AC (rapid curing)

A 3-component, quick-drying surface, quartz sand based, that can withstand foot traffic within one hour of application. Designed for most outdoor applications, including vehicular traffic, it can be used as a waterproofing surface (with fleece reinforcement) or as a high-build finish coating. Kemperol AC minichips can be applied with the topcoat for decorative effect

Balconies • Car parks/ramps • Terraces/podiums • Walkways

Kemperol TC (solvent-free)

A 3-component, solvent-free coating that is quartz sand based to give a decorative and protective finish. It can be used with any of the Kemperol waterproofing systems to provide a hard-wearing, coloured surface that can be sealed with a UV-resistant topcoat. Also suited to internal use.

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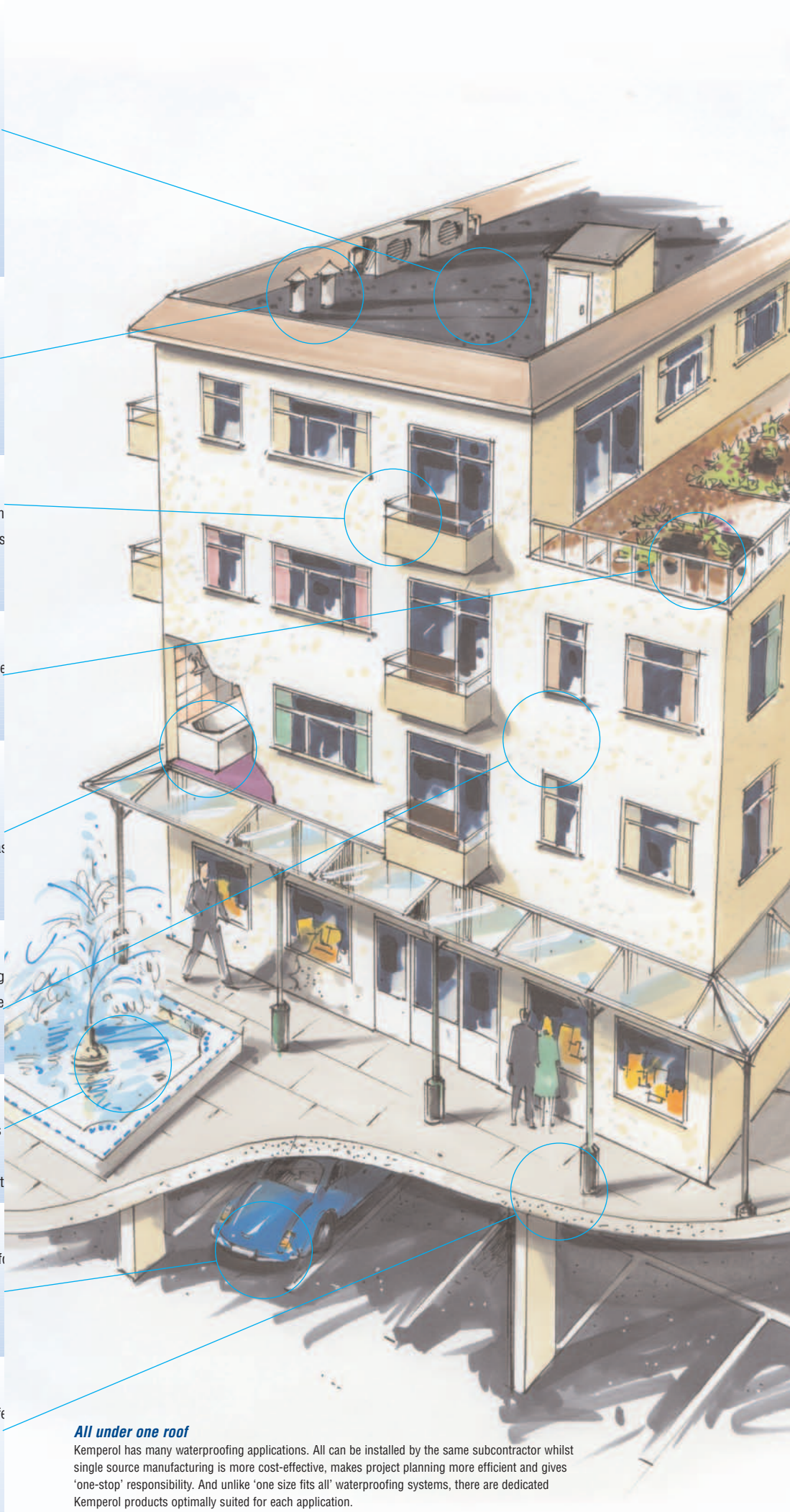


All under one roof

Kemperol has many waterproofing applications. All can be installed by the same subcontractor whilst single source manufacturing is more cost-effective, makes project planning more efficient and gives 'one-stop' responsibility. And unlike 'one size fits all' waterproofing systems, there are dedicated Kemperol products optimally suited for each application.

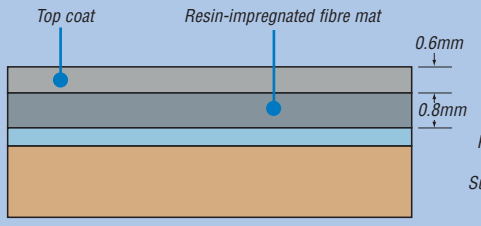
'Wet on Wet'– always the best for flat roofs

Kemperol is the only leading brand of cold liquid-applied waterproofing that's applied 'wet on wet', a method that consistently outperforms the 'wet on dry' application used for others.

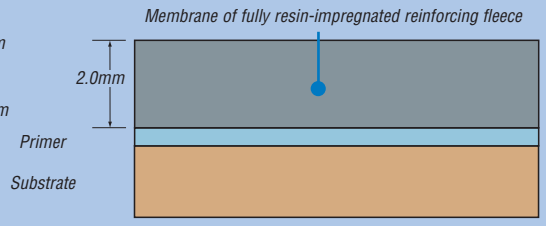
'Wet on wet' not only avoids drying times between coats – allowing whole areas to be completed in a single day – but because the base and surface form a continuous, single layer there is no lamination, which is the case with 'wet on dry' where the performance of the whole membrane is dependent on the integrity of each relatively thin application and the bond between each separate layer.

Whatever the substrate, all Kemperol systems are applied 'wet on wet', forming a seamless, inseparable membrane of great strength that avoids the risks of poor adhesion, thin spots or even delamination that can result with 'wet on dry' waterproofing.

Typical 2-layer 'wet on dry' liquid waterproofing



'Kemperol' single layer, 2-coat liquid waterproofing



Warm Roofs

A complete Kemperol system is now available that includes flat or tapered insulated board as part of a complete, cold-applied waterproofing system suited for occasional and frequently trafficked roofs, podiums and balconies. Contact our technical department for further information.

Trained Installers

Kemperol may only be applied by authorised contractors who have completed a rigorous training programme and are certified as competent in the correct selection and installation of Kemperol products. This is part of a total quality system that ensures optimum product suitability and long term performance.

Technical support and information

We offer a comprehensive advisory service from design through to completion and can advise on the most appropriate and cost-effective Kemperol product to meet your design and performance requirements. You can contact our technical design team on 01925 445532.

Detailed technical information, product selection and design guidance is also available on our website:

www.kempersystem.co.uk

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