

Banish those roof leaks

SPONSOR'S ANNOUNCEMENT

Last issue we talked to our sponsor Freedom Roofing about the old problem of a leaking flatroof, and how it could be a thing of the past. Here, we take a closer look at the wonder products that make this possible.

COMMERCIAL

Kemperol is a complete, liquid resin-based waterproofing and surfacing system mainly used for larger commercial roofs. It offers many advantages over other flat roof systems or hot-applied methods, and is the only cold liquid waterproofing system applied wet on wet.

It's also a dedicated system that is ideal for repair, renewal or new-build, with specific products for different applications unlike the "one size fits all" solutions typically available.

Kemperol V210 is ideal for new-build and large roof areas, with the solvent-free Kemperol 2K-PUR available for use on both refurbishment or new-build projects and when environmental considerations are important.

For very heavily trafficked areas, Kemperol BR is the recommended formulation. Finally, Kemperol 1K-PUR is a straight-from-the-can product perfect for patch repairs and difficult access areas.

The waterproofing components – one, two or three-part resins – impregnate a polyester fleece which is immensely strong, durable and tear-resistant, and also provides a clear visual indication that the correct membrane thickness has been achieved.

Kemperol is installed only by fully trained, approved contractors.

THE BENEFITS

Inert to UV degradation; bridges cracks; permeable to water vapour; allows old roof repair without removal; resistant to acids, alkalis, petrol and oil; 30-year proven performance; high tear-resistance; fully fleece-reinforced; adheres to almost all substrate; can be walked on; a seamless, light-weight membrane; weather resistant after 30 minutes.

SETTING THE STANDARD

The Kemperol system is certified in accordance with DIN EN ISO 9001 and DIN EN ISO 14001.

Comprehensive environmental

protection, sensible handling of raw materials and environmentally-friendly production processes are the elementary bases of the corporate policy.

New products are developed and tested in Kemper's own laboratory, and to ensure consistent quality, the Kemperol system is subjected to quality control inspections carried out by external institutes.

The system also carries its own certificate from the British Board of Agrément (BBA), the UK's major authority for approval of construction products, systems and installers, plus a 20-year guarantee and additional insurance backing.

FOR NEW BUILDINGS AND REFURBISHMENT

Moisture damage, the refurbishing of previous sub-standard refurbishment works, production downtimes or idle periods all cost money. Besides application as a maintenance or refurbishment solution, builders are now putting their trust in reliable solutions from the word go.

Increased inspection intervals, maintenance contracts and, in accordance with ETAG 005, a guaranteed service life of 25 years offer long-term protection – from the very start.

SUSTAINABLE WATERPROOFING

Sustainability is a major consideration for customers, and this is also something that drives much of the product development strategy at Kemper.

One recent development is that Kemperol 2K-PUR product – the only solvent-free liquid waterproofing in the UK – now uses resin with an 80pc renewable component, sourced from castor oil.

For customers looking for products with a low environmental footprint, this gives the option of zero solvents, a largely renewable composition, and no sacrifice in performance or economy. Used with Kemperol fleece – which itself has a 25pc recycled content – it has a 20-year warranty



VARIED APPLICATIONS: Freedom Fibreglass Roofing utilises the latest products to provide commercial roofing systems like the one pictured above, and residential options, pictured below.

and an (ETAG) "expected working life" of at least 25 years.

Compatible primer and surfacing components (Kemperol TC) are also available in solvent-free formulations, forming a complete waterproofing system with unmatched environmental credentials.

Being BBA certified it is ideal for new-build and, because Kemperol permanently bonds to almost all substrates, on refurbishment projects it is usually unnecessary to remove and dispose of the failed material. This reduces waste, material transport and landfill.

DOMESTIC

GRP (glass reinforced plastic) is the technical name for what is commonly known as fibreglass. Originally developed in 1938 for use in insulation, GRP is extremely durable and is used in a variety of applications across a number of industries.

Also known as FRP (fibre reinforced polymer) GRP is extremely versatile, strong and waterproof, making it the ideal solution for applications such as roofing systems. The ability to produce different finishes such as non-slip surfaces, in addition to being able to produce an unlimited range of colour options for applications of almost any complexity, means that GRP is now a popular and viable alternative to traditional roofing systems.

MADE TO LAST

Many glassfibre laminates made during the early days of GRP production in the 1940s are still in use today. Extensive testing has demonstrated the typical life expectancy of a GRP roof product to be more than 50 years. And tests conducted to date have shown no deterioration of infrastructure or performance throughout the testing period.

THE BENEFITS

There are a number of health and safety benefits from installing a GRP roofing system because the products are cold laid and don't require any form of heat treatment, helping to protect installers and the general public. This also means they are not subject to the same prohibitive insurance premiums levied at installers using hot-works.

Unlike traditional flat roofing systems, GRP flat roofs are extremely durable and completely waterproof, can be finished in a wide range of colours and include options such as non-slip finishes.

The entire area on a GRP roof is encapsulated into one single continuous membrane, with no seams, joints or welds.

It is also completely UV-resistant and highly adaptable, allowing conversion of the roof area to include features such as balconies or walkways and lights.

The major benefit of GRP roofing comes from the fact that a high-quality GRP roofing system, which is installed correctly, should remain leak-free for life.

FIRE RESISTANT

Freedom Fibreglass roofing uses specially formulated roofing resins and topcoats with fire certification with no restrictions on their use, which is your guarantee for situations where fire safety is a necessity.

WHATEVER THE WEATHER

GRP systems are ideally suited to adverse weather conditions and temperature extremes. As GRP is used to make boats and pond liners, it performs well when exposed to cold climates or heavy rain.

While GRP may not be suitable for applications above 100C, it will perform well within normal temperature extremes found within global environmental conditions. It is also fully bonded to the surface of the decking boards, so is very resistant to wind uplift.

TIMESCALES

An average domestic garage roof of around 20sqm can be removed, re-decked, laminated and topcoated within a day by a team of two people.

Depending on the ambient temperature, a GRP roof should be cured to the touch within an hour.



BEFORE



AFTER

More advice

■ For more information and advice call Freedom Fibreglass Roofing on 01603 426512 or visit www.flatroofnorfolk.co.uk. Alternatively, visit Freedom's working displays at Wyevale Garden Centre on Blueboar Lane, Highway Nurseries at Framingham Pigot, Taverham Nursery on Fir Covert Road, or Notcutts Garden Centre in Norwich.