



KEMPER SYSTEM



KEMPEROL® Liquid Waterproofing Specification

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1. Project Overview

KEMPER SYSTEM has been requested by David Desnoes of Camden Council to prepare a warm roof waterproofing specification to the new ply wood substrate laid to fall at 238A Grays Inn Road. Based on the information provided and subject to preparation in line with our standard requirements we are pleased to propose our STRATEX warm roof system. STRATEX consists of KEMPEROL® rigid insulation and our fully bonded, reinforced cold applied KEMPEROL® 2K-PUR solvent free and odourless waterproofing system.

The BBA/ETA certified KEMPEROL® 2K-PUR waterproofing system consists of a polyurethane based resin saturated into a non-woven polyester fleece for strength and is suitable for bonding directly to a exterior grade plywood.

This system has many advantages over traditional bitumen based roofing materials, including:-

- Cold applied, no requirement for hot works during the installation.
- There is no need to remove extensive areas of the existing roof coverings, minimising the risk of water ingress during the works and possible disruption to the buildings occupants.
- The membrane is not thermoplastic, and therefore will not soften and slump when warm and is permanently flexible even at low temperatures.
- Standing water has no detrimental effect on the membrane.
- KEMPEROL® 2K-PUR is both odour and solvent free.
- The system provides a fully encapsulated, seamless waterproofing solution.

The following specification is to be covered by the KEMPER SYSTEM waterproofing materials warranty for a period of 20 years from the date of practical completion. In order to meet this requirement only KEMPEROL® approved roofing contractors may be used. The eligibility of proposed roofing contractors should be confirmed with KEMPER SYSTEM.

Note: The new system will follow the profile of the existing roof structure and any deviations will be replicated; as a result, some areas of standing water may occur; please note this will not have any adverse effect on either the waterproofing integrity or life expectancy of the KEMPEROL® products specified. Independent BBA certification confirms that KEMPEROL® 2K-PUR is suitable for zero pitch application. If ponding is undesirable allowances should be made to improve the falls or introduce additional drainage.

2. System Components

KEMPERSHIELD Type 1 Primer	A low viscosity primer based on synthetic rubber and resins to enable maximum adhesion of KEMPERSHIELD vapour barrier to the substrate.
KEMPERSHIELD Vapour Barrier	A high performance peel and stick vapour barrier with a bituminous backing and aluminium core; may also be used as temporary waterproofing.
KEMPERFIX Gun Applied Adhesive	A high foaming, moisture curing, single component polyurethane adhesive used to bond KEMPERTHERM® insulation to the roof deck during construction.
KEMPERTHERM® FR Insulation	A flat, rigid PIR insulation board with multi-layer aluminium foil face to underside and a 3mm factory bonded hard top for durability to the top face. Comes complete with tongue and groove interlocking edges.
KEMPERTEC® D Primer	Two component solvent free primer based on polyurethanes resins designed to condition surfaces prior to the application of KEMPEROL® waterproofing.
KEMPERTHERM® Joint Fleece	Fleece used during the priming operation of insulation boards to prevent the loss of waterproofing resin between the boards.
KEMPEROL® 2K-PUR	Two component, fully reinforced cold liquid applied solvent-free waterproofing system based on polyurethane resin that forms a permanently elastic, seamless, fully bonded membrane.
KEMPEROL® Speedshot	Used to accelerate the aid and speed the curing time of KEMPEROL® 2K-PUR waterproofing and KEMPERTEC® D primer.