

Product Description

Uretech TM is a high performance, solvent free, low odour; liquid applied coating which cures by reaction with atmospheric moisture to produce a flexible and elastomeric waterproofing membrane with good adhesion to a variety of substrates. Uretech TM has been developed specifically for use as a tanking membrane and is compatible with our full range of access flooring pedestal adhesives including PA1, PA2, KPA1, GPA1 and BPA1.

It is MDI based, and contains no tar or bitumen, and therefore presents minimal hazard in use. Being liquid applied the material allows a completely seamless application over an entire area, even if the structure is complex and undulating, and will accommodate a degree of substrate movement although it is essential that the supporting substrate is sound and stable. For all practical purposes Uretech TM is impervious to moisture, and it is therefore essential to take account of any vapour drive within a structure, its use and circumstances.

Typical Applications

Internal tanking

Uretech TM can be used as a waterproofing membrane on most substrates including; concrete, felt, asphalt & bitumen, corrugated asbestos sheet, slates, tiles, brick, wood, glass, ferrous metals, lead and copper.

Sub-Ground Structures

Uretech TM can be used to waterproof and protect sub-ground structures. If the structure is to be back filled, the coating thickness must be thick enough to resist penetration of sharp aggregates and scrim reinforcement is recommended.

Access Flooring & Data centres

Uretech TM can be used to waterproof and protect surfaces under access flooring and is commonly used to protect data centres and electrical equipment from sprinkler systems and other areas of potential water damage. Uretech TM should not be used to line ponds, swimming pools or domestic and potable water systems.

Installation

Proper preparation must be carried out to ensure that the substrate is clean, dry and free from loose and friable material. Uretech TM is a membrane coating, not paint, and a higher film thickness (dft) is therefore necessary to achieve proper elastomeric performance and protection. The minimum membrane thickness should be 1.0mm (1.3kg/m²) and this is achieved with the following considerations: -

- ◆ Two minimum 0.5mm applications will eliminate thin areas and pin holing, but will incur greater labour costs.

- ◆ Care must be exercised to ensure that a second application takes place within 48 hrs to ensure good inter-coat adhesion.

- ◆ A single minimum application of 1.0mm reduces labour costs and eliminates problems of over-coating within specified time limits, but care must be taken to ensure uniform film thickness and avoid pin-holing.

Expansion Joints & Live Cracks

Joints and cracks should be over-banded as follows. Clean surrounding surfaces. Where the joint sealant does not fill the joint, pour in Uretech TM flush with the surface. Apply a coat of Uretech TM and whilst wet, embed 300mm wide strips of reinforcing scrim into the membrane, overlapping where necessary and avoiding creases and bubbles. Overcoat immediately, extending at least 15mm either side. Do not stretch the scrim. Bolt heads etc should be given 2 coats before the general application.

Pedestals, Flashing, Valleys, Upstands etc

Uretech TM is self-flashing and can be used to create upstands. In such cases the angle between the vertical and horizontal surfaces should be over-banded with 300mm scrim reinforcement. This should be embedded into the first coat as it is applied and rolled to prevent creases and bubbles. The scrim should be installed 150mm up the vertical and 150mm on the horizontal. Apply 2 coats of Uretech TM. Alternatively a cant strip or cover fillet can be installed at the vertical/horizontal joint in order to reduce the membrane stresses at a right angle.

Cementitious & Porous Surfaces

Allow at least 28 days drying time for new concrete. Remove all laitance, all loose and foreign material. All friable or dusting surfaces must be cleaned back to a firm base. Any plant or fungal growth should be removed completely. The application of a fungicidal wash is recommended if growth is excessive. For internal work no primer is necessary.

Metal

For ferrous metal substrates, remove any previously applied coatings, rust and scale by mechanical means, or wire brush if rust is only superficial.

Apply one or two coats of Uretech TM. Do not apply to deeply rusted surfaces without first treating with anti-corrosive primer. Non-ferrous surfaces such as lead, copper, brass, stainless steel and sound galvanising should be cleaned and thoroughly degreased before application of Uretech TM. Damaged/rusted galvanised sheet should be treated as for ferrous substrates.

Metal Backed Flashing

New metal backed flashing strip may have residual silicone on the surface. Wash with high flash aromatic solvent. Allow to dry. Abrade the surface and apply Uretech TM.

Wooden Surfaces

Remove all paint and varnish to a clean and dust-free surface and apply Uretech TM directly to the wood, ensuring the surface is dry. Ensure that no silicone, stearate or other water repellent treatment has been previously applied.

Packaging

Uretech TM is a single component product available in 20kg and 10kg tins.

Handling & storage

Uretech TM should be stored in a covered area above 5oC and below 30oC and will have a shelf life of 6 months under these conditions. Uretech TM is not classified hazardous for transportation. Good standards of industrial hygiene should be observed when handling all components. The use of protective gloves is highly recommended and users should consider the use of goggles if splashing during use is a possibility.

The recommendations made in the Health and Safety Data Sheet for this product should be observed at all times. Uretech TM contains small amounts of 2,4-diphenylmethanediisocyanate and the advice contained in the Star Uretech Health and Safety Data Sheet is of particular importance.

Technical information

Colour	Grey
Tensile Strength MPa	2.6
Specific Gravity (sg)	1.3
Elongation (%)	400% min

Disposal

The condition of this product will determine the required method of disposal. Used containers with fully cured product remaining around the edges or bottom of the container should have the hazard label removed or obscured before disposal as general building waste. Uncured/Liquid product should be disposed of as hazardous waste.

Coverage

When used correctly a minimum application rate of 7.7m² per 10.000kg unit should be expected. (A single coat @ 1.3kg/m² or two coats at 0.7kg/m². Please note that coverage rate may vary with different substrates and application methods).

Order detail

The order references for Uretech TM are:

20kg Unit: TKM-020-00-3.

A Full pallet consists of 33 x 20kg units.
(Est coverage: 507m²)

10kg Unit: TKM-010-00-3.

A Full pallet consists of 100 x 10kg units.
(Est coverage: 769m²)

Related documentation

- ▶ Uretech TM Safety Data Sheet (GHS)
- ▶ Uretech TM Method Statement
- ▶ Uretech TM Quality Guarantee
- ▶ Uretech TM Specification Guide

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