



# TRITON TWS-POLY H

## Description

**TWS-POLY H** (hand applied) is a fast setting; hand applied two component pure Polyurea coating.

It has been developed as a high strength rigid material for use as a coating onto prepared concrete. It is applied by squeegee, trowel, brush or roller. The product benefits from fast film build up and quick cure times.

Typical applications include waterproofing of roofs, balconies, terraces and water tanks where high abrasion resistance, flexibility and durability are required.

## Product Features

Cold applied Polyurea	Low sensitivity to moisture during application
Film properties	High degree of flexibility combined with tensile strength gives excellent durability and abrasion resistance.
Chemical resistance	The cross-linked properties of <b>TWS-POLY H</b> gives excellent resistance against a variety of chemicals such as acids and alkalis.

## Application

**TWS-POLY H** flexible membrane is designed for use in applications where a seamless waterproof system is required.

### Support Requirements

In order to achieve a good penetration and bonding, support must be:

1. Flat and levelled
2. Compact and cohesive
3. Even and regular surface
4. Free from cracks and fissures. If any they must be previously repaired.
5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

Support temperatures must be between 10°C and 40°C. At higher temperatures, additional measures to be advised by the manufacturer. Support moisture must be less than 40%. Air temperature should be between 10°C and 40°C, relative air humidity should be less than 85%.

### Support Preparation

Concrete substrates must be prepared mechanically using high pressure abrasion system (e.g. jet washer), in order to remove all dust and loose particles from the surface and obtain an open pore. Substrates must be primed and levelled until a regular surface is obtained. Sharp irregularities can be eliminated using an abrasive disc machine.

### Priming

A primer may be required depending on the nature of the substrate. Concrete substrates require a primer.

### Mixing

Stir and homogenise both components separately using suitable mixing equipment. Pour Component B gently into the Component A and mix with a low speed stirrer ensuring a homogeneous colour is achieved, wait a few minutes before application.



Addition of Component B has an effect on the viscosity and solids content of Component A. Please take this into account when calculating the amount and thickness of the product if a final coat of 1.5-2mm is to be obtained.

**Application**

**TWS POLY-H** should be poured immediately onto the surface. The product should then be pushed out to the required thickness using a squeegee, trowel, roller or brush. Use a spiked roller afterwards to avoid bubble formation.

It is recommended that the product is applied at temperatures greater than 10°C.

**Curing**

Curing time for mixtures 1mm thick, approximate:

Conditions	Dry to touch (h)
35°C, 30% humidity	1.5h
23°C, 40% humidity	3h
5°C, 60% humidity	7h

The cure time will be extended at low temperatures.

**Re-application**

Usually, the required thickness can be obtained in one single coat. If necessary a second coat can be applied immediately afterwards. In any case, do not wait more than 2 hours for a second coat. If spraying over a previous applied epoxy primer, ensure the primer is completely cured.

**Questions and Answers**

What if a different ratio is used?

- Too little Component B will make the curing time longer, but no damage is expected.
- Using too much Component B does not reduce curing time and will strongly damage the final membrane properties.

For further information please contact:

**Triton Systems Ltd**

Units 3 – 5 Crayford Commercial Centre, Greyhound Way, Crayford, Kent DA1 4HF

Tel: 01322 318830

Fax: 01322 524017

Email: [info@tritonsystems.co.uk](mailto:info@tritonsystems.co.uk)

[www.tritonsystems.co.uk](http://www.tritonsystems.co.uk)