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TECHNICAL DATA SHEET

Hycote 700WT

ThistleBond 'Hycote 700WT' is a high performance universal roof protection system specifically developed for long term protection of all types of roof surfaces.

The **ThistleBond 'Hycote 700WT'** formulation contains a complex blend of acrylic resins and aliphatic hydrocarbon polymers reinforced with inorganic fibres and reinforcing agents to produce a system which offers outstanding weatherproofing and waterproofing properties with optimum levels of UV resistance, flexibility, adhesion and durability for any roof surface including asphalt, bitumen, mineral felt, asbestos, aluminium, concrete, galvanising and any metal surface.

ThistleBond 'Hycote 700WT' is designed for application by brush incorporating **ThistleBond 'Hycote 700WT' Reinforcing Sheet** to provide a durable waterproofing system capable of 10 years minimum protection.

Before proceeding please read the following information carefully to ensure that proper application procedure is fully understood.

SURFACE PREPARATION

The **ThistleBond 'Hycote 700WT'** system should only be applied to structurally sound roof areas. On flat roofs which have been dressed with large or medium size chippings, these must be removed prior to application. A mechanical flail should be used to remove the chippings and then the area swept down to remove all loose dirt and dust.

On asphalt roofs, blisters should be cut out and the void filled with polymer concrete screed. On felt roofs, severe blisters should be cut open and bonded flat.

Any areas of moss or lichen growth should be treated with a Fungicidal Wash in accordance with the instructions.

Any surface to be protected must be clean, dry and firm, and this is especially important with metallic, glass or plastic surfaces.

At any wide joints (such as joints on corrugated roofs or poor fitting flashings) or where excessive movements can be expected (such as valley gutter joints) it is advisable to apply **ThistleBond 'Hycote 700WT' Bridging Tape** over these areas.

To apply the **ThistleBond 'Hycote 700WT' Bridging Tape** simply peel off the protective film and press down firmly, following the contour as far as possible. Finally, ensure the edges of the **ThistleBond 'Hycote 700WT' Bridging Tape** are pressed down to be flush with the surface.

MIXING AND APPLYING THE THORTEX POLY-TECH PRIMERS

Bituminous and Porous Surfaces: Surfaces should be primed with **ThistleBond 'Hycote 700WT' Primer**. **ThistleBond 'Hycote 700WT' Primer** is supplied ready to use - no mixing is required but it is advisable to shake the container prior to use to obtain a consistent product. Detailed application procedures are given on the **ThistleBond 'Hycote 700WT' Primer** Tech Sheet.

Copper and Ferrous Metal Surfaces: Surfaces should be primed with **ThistleBond 'MA3 Tie-Coat'**. Detailed application procedures are given on the **ThistleBond 'MA3 Tie-Coat'** Tech Sheet.

For coverage rates of primers refer to the appropriate primer tech sheet.

APPLYING THE POLY-TECH SYSTEM

ThistleBond 'Hycote 700WT' should not be applied below 5°C, when rain is falling or when rain is imminent, or when humidity exceeds 90%. In winter months due consideration must be given to the early onset of condensation formation in early afternoon and application of **ThistleBond 'Hycote 700WT'** should be discontinued well before this time.

The **ThistleBond 'Hycote 700WT'** 10 year system is a two coat system using **ThistleBond 'Hycote 700WT'** with **ThistleBond 'Hycote 700WT'** included in the first coat.

ThistleBond 'Hycote 700WT' Reinforcing should be secured into the **ThistleBond 'Hycote 700WT'** immediately after application where necessary. The reinforcing must follow the contour of the surface and must not be pulled or stretched to leave hollow areas. **ThistleBond 'Hycote 700WT'** should then be brushed onto and through the Reinforcing, keeping the thickness of the **ThistleBond 'Hycote 700WT'** as even as possible and no thicker than is required to wet down the reinforcing.

The second coat of **ThistleBond 'Hycote 700WT'** should then be applied using a good quality brush a minimum of 2-4 hours after the first coat. The minimum overcoating interval will depend upon the roof temperature and drying conditions. Provided the first layer of **ThistleBond 'Hycote 700WT'** is clean there is no maximum overcoating time.

Do not apply **ThistleBond 'Hycote 700WT'** beyond the areas coated with primer.

Where large applications are involved, Reinforcing should be laid out over the primed area and the **ThistleBond 'Hycote 700WT'** brushed through the Reinforcing to provide a uniform layer which follows the contour of the surface. Adjacent widths of Reinforcing should allow 1-2 cm overlap.

Recommended Minimum Film Thickness (Per Coat)

Wet 300 microns (12 mils)
Dry 180 microns (7 mils)

Theoretical Coverage Rate

The Theoretical coverage rate for **ThistleBond 'Hycote 700WT'** (unreinforced) is :-

3.3 m² / litre at 180 microns dft (35.5 ft²/litre at 7 mils dft).

In practice the coverage will be reduced significantly depending on the surface involved and a guide to practical coverage rates for the **ThistleBond ' Hycote 700WT'** system is given in the table below:-

PHYSICAL CONSTANTS

Mixing Ratio	Supplied ready for use.	
Appearance	Viscous coloured thixotropic liquid.	
Drying & Cure times at 20°C	Touch Dry	1-2 Hours
	Minimum Overcoating	2-4 Hours
	Maximum Overcoating	Indefinite provided surface is clean.
	Shower Resistant	30 minutes
	Water Resistant	2 hours
Volume Solids	60%	
V.O.C.	Nil	
Shelf Life	Use within 5 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F) PROTECT FROM FROST.	

HEALTH AND SAFETY

As long as normal good practice is observed **ThistleBond ' Hycote 700WT'** can be safely used.

A fully detailed **Material Safety Data Sheet** is either included with the material or is available on request.

PACKING

Supplied in 20 litre units.

PHYSICAL PROPERTIES

Direct Pull Adhesion ASTM D4541	28 kg/cm ² (400 psi) - concrete
Water Vapour Permeability ASTM E96	1x10 ⁻⁴ perm.cm
Tensile Strength ASTM D412	42 kg/cm ² (600 psi)
Elongation ASTM D412	150%
Tear Strength ASTM D624	9.84 kg/cm (55 pli) unreinforced 17.3 kg/cm (95 pli) reinforced
Ozone Resistance (160 hours/110 ppm at 104°F) ASTM D1149	No Cracking

'HYCOTE 700WT' COVERAGE RATES

In hot and windy conditions or when coverage rates are not being achieved, water can be added to **Thortex Poly-Tech** to improve coverage.

ThistleBond Hycote 700WT Coverage Rates	Smooth Asphalt or Felt	Mineral Felt or small Chippings	De-Chipped Felt	Concrete or Brick	Asbestos Cement New	Asbestos Cement Weathered	Glazing Repairs Metal Bars	Glazing Repairs Wood Bars	Metals, Lead, Aluminium, Galvanised, Steel Painted Surface	Copper Ferrous Metals
First coat 700WT with 700WT Reinforcing / litre	21 ft ² 1.9 m ²	Will Range From 10 - 18 ft ² 0.9 - 1.7 m ²			21 ft ² 1.9 m ²	15 ft ² 1.4 m ²	21 ft ² 1.9m ²	18 ft ² 1.7 m ²	21 ft ² 1.9 m ²	21 ft ² 1.9 m ²
700WT 2nd coat/litre	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²	35 ft ² 3.3 m ²
*700WT System two coats/litre	13 ft ² 1.2m ²	Will Range From 8 - 12 m ² 0.75 - 1.1 m ²			13 ft ² 1.2 m ²	10.5 ft ² 1.0 m ²	13 ft ² 1.2 m ²	12 ft ² 1.1 m ²	13 ft ² 1.2 m ²	13 ft ² 1.2 m ²

*To aid estimating the **ThistleBond ' Hycote 700WT'** two coat figures can be used. However in practice, the first coat is applied with **ThistleBond ' Hycote 700WT' Reinforcing**. This results in more **ThistleBond ' Hycote 700WT'** being used with the first coat. The first coat and second coat coverage rates for **ThistleBond ' Hycote 700WT'** reflect this difference.

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests. Detailed specifications are available on request from the company.

FOR FURTHER INFORMATION PLEASE CONTACT



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