



TECHNICAL DATA SHEET

FLOOR-TECH W.B.

Two Component Water-Based Epoxy Finish

Thortex Floor-Tech W.B. is a high performance water-based epoxy ceramic reinforced coating designed for use as a cost effective durable floor protection system.

Thortex Floor-Tech W.B. consists of a unique blend of water dispersible epoxy resins combined with hydrophilic amine adducts reinforced with ceramic particles which have been specially selected to produce a tough durable coating with optimum level of adhesion, abrasion, impact and chemical resistance.

Thortex Floor-Tech W.B. is simple, safe and easy to use and has excellent adhesion to any type of floor surface with the appropriate primer and is an ideal system for concrete, quarry tiles or previously painted surfaces where a durable easy clean surface is required.

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

SURFACE PREPARATION

All surfaces should be clean, dry and free from contamination and then prepared as follows:-

Tiles, Power Floated Concrete, Dense Concrete, and Previously Painted Surfaces: Should be prepared and primed with **Thortex Uni-Tech G.P. Primer** in accordance with the product tech sheet.

Porous/Open Concrete: Should be prepared and primed with **Thortex Floor-Tech S.P. Primer** in accordance with the product tech sheet.

Steel/Metal Surfaces: Should be abrasive blast cleaned, any resulting dust and debris should then be swept clean. Prepared surfaces can then be primed with **Thortex Uni-Tech M.C. Primer** in accordance with the product tech sheet.

MIXING

Thortex Floor-Tech W.B. is a two component material comprising base and activator components which must be mixed together prior to use.

The **Thortex Floor-Tech W.B.** base component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring, the contents of the activator container should be added. Continue stirring until a homogeneous mix is obtained.

To produce **Slip Deterrent Floor-Tech W.B.** all the contents of the aggregate container should be added to the mixed product prior to application.

To produce a slip deterrant finish, **Thortex Floor-Tech W.B. Aggregate**, supplied separately, should be incorporated into the mixed **Thortex Floor-Tech W.B.** The entire contents of the Aggregate container should be added to one 5 litre unit and thoroughly stirred in.

The mixed material must be used within 2 hours of mixing at 20°C (68°F).

APPLICATION

Application should not be carried out when air and surface temperatures are below 5°C nor when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.

Thortex Floor-Tech W.B. can be applied by brush or roller.

Brush: Brush application should be carried out using even brush strokes. **Thortex Floor-Tech W.B.** should not be over brushed which may lead to lower than specified coating thickness.

Roller: **Thortex Floor-Tech W.B.** should be spread evenly over the surface to give a film thickness of 100 microns (4 mils) wet. Periodic thickness checks should be made to ensure the correct uniform thickness is achieved.

Thinning: **Thortex Floor-Tech W.B.** does not normally require thinning. Where thinning is necessary then upto 5% by volume of clean water may be added.

All equipment must be cleaned IMMEDIATELY after use with water, stubborn deposits may be removed by the use of **Thortex Universal Cleaner**.

Theoretical Coverage Rate per Coat

10 m²/litre at 50 microns dft (108 ft²/litre at 2 mils dft per coat).

Recommended Film Thickness

Wet 100 microns (4 mils)

Dry 50 microns (2 mils)

Note: Normally applied as a two coat system to achieve a total dry film thickness of 100 microns.

Detailed working recommendations are available from the Technical Centre on request.

PHYSICAL CONSTANTS

Mixing Ratio 4 parts base to 1 part activator by volume.

Appearance Base Coloured Liquid
Activator Clear Liquid

Drying & Cure

Times at

20°C/68°F	Usable Life	2 Hours
	Touch Dry	4 Hours
	Hard Dry	16 Hours
	Minimum Overcoating	16 Hours
	Maximum Overcoating	5 Days
	Full Cure	7 Days

Volume Solids 50%

V.O.C. Nil

Shelf Life Use within 2 years of purchase. Store in original sealed containers at temperatures 5°C (40°F) and 30°C (86°F). PROTECT

FROMFROST.

Food Contact Meets USDA requirements for incidental food contact.

Meets FDA CFR 21.175.300 requirements for food contact.

FOR FURTHER INFORMATION PLEASE CONTACT

PHYSICAL PROPERTIES

Abrasion Resistance 32 mgm loss per 1000 cycles, 1 kg load
ASTMD4060 - CS17 wheel

Adhesion 35 kg/cm² (500 psi) (on concrete)
ASTMD4541

Impact Resistance 3.95 joules (35 in lbs)
ASTMD2794

Scratch Resistance No failure 2.5 kg (5.5 lbs) load
BS 3900 Part E2

HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Floor-Tech W.B.** can be safely used.

The use of protective gloves is advisable during use.

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

PACKAGING

Supplied in 5 and 20 litre packs.

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.



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