

## FLOOR-TECH F.S. SEAL

### Two Component Water Based Polyurethane Floor Coating

**Thortex Floor-Tech F.S. Seal** is a high performance clear polyurethane floor coating which provides the ideal sealer for use in conjunction with **Thortex Floor-Tech F.S. Flakes**.

**Thortex Floor-Tech F.S. Seal** is based on a complex blend of water-borne acrylic and urethane polymers in combination with colour stable chemical resistant resins to provide a coating which offers outstanding weather, chemical and abrasion resistance together with excellent gloss and colour stability.

**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 oil, grease and loose material.

New concrete surfaces should be physically abraded to remove any laitence present and all resultant dust and loose material should be swept or vacuumed from the surface.

#### MIXING

**Thortex Floor-Tech F.S. Seal** is a two component water based product supplied as a base component and activator component which must be mixed together prior to use.

The base component should be stirred using a variable speed mechanical mixer with the mixer set at approximately 1000 rpm. The activator component should be slowly added whilst continuing stirring (increasing the rpm as required) until a uniform homogeneous mix is obtained.

The mixed **Thortex Floor-Tech F.S. Seal** should be used within 1½ hours of mixing at 20°C.

#### APPLICATION

Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point. The minimum temperature for application is 5°C.

**Thortex Floor-Tech F.S. Seal** should be applied to provide an even coating thickness by brush or roller ensuring that ponding is avoided. Medium pile rollers should be used for this application.

All equipment must be cleaned IMMEDIATELY after use with clean water.

#### Theoretical Coverage Rate

First coat: 5m<sup>2</sup>/ltr at 100 microns (58ft<sup>2</sup>/litre at 4 mils)  
Second coat: 10m<sup>2</sup> / litre at 50 microns dft (107 ft<sup>2</sup> / litre at 2 mils dft)

#### Recommended Film Thickness

Wet: 1st coat: 200 microns (8 mils)/2nd coat: 100 microns/ (4 mils)  
Dry: 1st coat: 100 microns (4 mils)/2nd coat: 50 microns (2 mils)

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

#### PHYSICAL CONSTANTS

**Mixing Ratio** 3.5 parts base to 1 part activator by volume.

**Appearance** Base Clear or Coloured Liquid  
Activator Clear Liquid

**Drying & Cure times at 20°C**

Usable Life	1½ hours
Touch Dry	4 hours
Hard Dry	16 hours
Minimum Overcoating	4 hours
Maximum Overcoating	48 hours
Full Cure	7 days

<b>Volume Solids</b>	50%
<b>V.O.C.</b>	65 gms/litre
<b>Shelf Life</b>	Use within 2 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F). PROTECT FROM FROST.
<b>Food Contact</b>	Meets USDA requirements for incidental food contact.

## PHYSICAL PROPERTIES

<b>Impact Resistance</b> BS 2782 Part 3	No failure (0.9 kg load dropped 45 cm)
<b>Direct Pull Adhesion</b> ASTM 4541	35 kg/cm <sup>2</sup> - concrete (concrete failure)
<b>UV Resistance</b> ASTM G53	500 hours QUV-B no loss, no colour change
<b>Humidity Resistance</b> BS 3900 Part F2	Unaffected 5,000 hours exposure
<b>Bacteria Resistance</b> BS 4618 Section 4.5	Excellent
<b>Mould Resistance</b> BS 3900 Part G6	Excellent
<b>Scratch Resistance</b> BS 3900 Part E2	No failure 2.5 kg load

## HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Floor-Tech F.S. Seal** can be safely used.

Rubber gloves should be used.

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

## PACKAGING

Supplied in 4.5 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.

FOR FURTHER INFORMATION PLEASE CONTACT



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