



# TECHNICAL DATASHEET

## SEAL-TECH S.S.

### Two Component Solvent Free Elastomeric Compound



**Thortex Seal-Tech S.S.** is a high performance synthetic elastomer compound designed for use as a caulking material for expansion joints and other applications in food factories. The product can also be used as a repair or lining material for rubber and other surfaces.

**Thortex Seal-Tech S.S.** is based on a complex blend of food safe polyols in combination with amine catalysts to produce a product with outstanding flexibility and durability in combination with excellent chemicals, abrasion and impact resistance.

**Thortex Seal-Tech S.S.** offers a high degree of tear strength and elongation properties and has excellent adhesion to metal, rubbers, most plastics and cementitious surfaces making the product versatile to use on almost any type of surface.

**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 other contamination. All loose materials must be removed by chipping or grinding.

Oil and grease should be removed using **Thortex Universal Cleaner**.

Where possible surfaces should be abraded prior to the application of **Thortex Flexi-Tech Primer**.

### PRIMING

Before applying **Thortex Seal-Tech S.S.** all surfaces should be primed with **Thortex Flexi-Tech Primer**.

**Thortex Flexi-Tech Primer** is supplied ready for use and should be applied with a soft bristled brush to give an even low coating thickness, taking care to avoid ponding of the primer.

The primer should be allowed a minimum of 1 hour and a maximum of 8 hours at 20°C before applying the **Thortex Seal-Tech S.S.**

### MIXING

**Thortex Seal-Tech S.S.** is supplied as a two component paste grade or fluid grade material which must be mixed together prior to use.

**Thortex Seal-Tech S.S. Paste:** The base and activator component should be tipped onto a clean surface and mixed thoroughly to produce a smooth streak free material.

**Thortex Seal-Tech S.S. Fluid:** The contents of the activator component should be added to the base component with continuous stirring to produce a streak free viscous liquid.

Thorough mixing of both grades is extremely important, and once the material appears mixed, a further period of mixing should be carried out to ensure there is no unmixed material.

The mixed material should be used within 10 minutes (fluid) or 20 minutes (paste) of mixing at 20°C (68°F).

### APPLICATION

**Thortex Seal-Tech S.S. Paste:** The mixed material can either be loaded into a cartridge for application through a sealant gun, or transferred to a polythene bag with a corner cut off and then the mixed material can be squeezed out into position, alternatively the product can be knifed into the expansion joint.

**Thortex Seal-Tech S.S. Fluid:** The mixed material should be poured directly into the prepared expansion joint.

Excess material should be removed within the initial set time of **Thortex Seal-Tech S.S.** products.

All equipment must be cleaned IMMEDIATELY after use with **Thortex Universal Cleaner**.

**Theoretical Coverage Rate**

Each 1kg unit will fill a gap of 6 mm x 12 mm  
( $\frac{1}{4}$  x  $\frac{1}{2}$  inch) over a 12 metre (39 ft) length.

**Volume Capacity**

890cc (53 cu ins) per kilo

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

**PHYSICAL CONSTANTS**

Mixing Ratio	Base	Activator	
Fluid	8	1	By volume
Paste	7	1	By volume

Appearance	Base	Activator
	Clear	Coloured liquid or paste

**Drying & Cure**

Times at 20°C	Fluid	Paste
Usable Life	10 minutes	20 minutes
Initial Set	20 minutes	2 hours
Hard Dry	2 hours	16 hours
Full Mechanical	3 days	3 days

**Volume Solids** 100%

**Shelf Life** Use within 12 months of purchase. Store in original containers at temperatures between 5°C (40°F) and 30°C (86°F).

**Food Contact** Canadian Food Inspection Agency - Accepted product.  
Meets USDA requirements for incidental food contact.

FOR FURTHER INFORMATION PLEASE CONTACT

**PHYSICAL PROPERTIES**

<b>Elongation</b> ASTM D412	400%
<b>Shore A Hardness</b> ASTM D2240	75
<b>Slump Resistance</b> (Seal-Tech S.S. Paste)	12 mm ( $\frac{1}{2}$ inch)
<b>Tear Strength</b> ASTM D624	35 kg/cm (200 pli)
<b>Tensile Strength</b> ASTM D412	80 kg/cm <sup>2</sup> (1200 psi)

**HEALTH AND SAFETY**

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

**Thortex Flexi-Tech Primer** is highly flammable, keep away from sources of ignition.

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

**PACKAGING**

Supplied in 1 kg 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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