

# Solco Leakmaster Waterstop Sealant

## Description:

Solco Leakmaster is a one-component polyurethane water-swelling sealant with excellent and unique physical properties. It is a gun applied waterstop product that expands up to twice its original volume on contact with water to provide a watertight seal.

Its flexibility and versatility make it ideal for a wide range of commercial, residential, and engineering applications, as well as in refurbishment projects where irregular or hard to access joints and penetrations make solid sealants impractical.

It can be applied to places such as joints, etc., in civil engineering construction and water services for seals where conventional solid sealants cannot be applied easily.

Leakmaster adheres well to most surfaces, including concrete, glass, and steel. And because it keeps its rubber-like elasticity, it can accommodate movement and settlement while maintaining excellent leak tightness.

After hardening, it has excellent physical properties together with rubber-like elasticity and water sealing properties.

## Properties:

Leakmaster was developed using the same hydrophilic compounds found in our Hydrotite range of rubber waterstops.

It is intended for use in gaps, irregular joints, and in pipe and beam penetrations, where it can be applied accurately using a standard caulking gun.

On application, it adheres readily to a wide range of materials including concrete, steel, glass, mortar, and brickwork.

After hardening, its water absorption properties allow it to swell to almost twice its original volume. Because it maintains its elasticity, Leakmaster will continue to provide a 100% watertight seal even under considerable movement and settlement.

## Packaging and Storage:

Solco Leakmaster is packaged in a 320cc cartridge for use with standard caulking guns. There are 24 cartridges, plus cartridge nozzles, in a carton.

Store Leakmaster in a cool, dark, dry place below 32 degrees Centigrade. Use within 24 hours of breaking moisture proof cartridge seal. Check production month on cartridges and discard any older than 12 months.

## Health & Safety:

- Contains solvent and may be ignited by sparks or flames before curing.
- Ventilate adequately before application. Poor ventilation may result in eye and/or respiratory irritation, headache, dizziness, and nausea.
- Always wear gloves and eye protection. Seek medical help if swallowed. Avoid skin and eye contact.
- Do not use in potable water storage or pipework.
- Do not apply to external surfaces. Do not use at temperatures above 40°C or below 5°C.



- **Easy application to smooth and uneven surfaces as a moisture-cure water-swelling sealant.**
- **Physical properties: after hardening, it has better physical properties than those of conventional putty type sealants.**
- **Water swelling up to approx. 2 times in volume as a result of its water absorption and swelling mechanisms.**
- **Provides excellent water sealing properties without losing its rubberlike elasticity.**
- **Good adherence: before swelling it adheres to various materials such as concrete, metal, glass, etc.**

## Typical Uses:

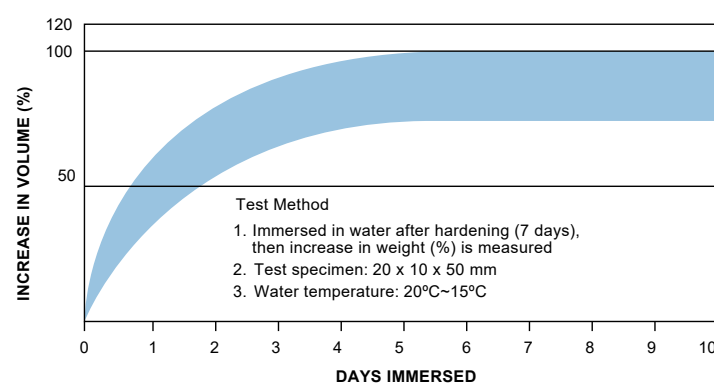
- H-section joists and pipe penetrations.
- Box culvert joints.
- Caulking for water distribution systems.
- Cast-in-situ concrete joints.
- Filling gaps between Hydrotite waterstop strip and uneven substrate.
- Extra adhesion for Hydrotite at flat corners and on vertical or overhead surfaces.

## Technical Data:

Property	Value
Appearance	Putty-like
Colour	Grey
Specific Gravity	1.30
Extrudability (At 23°C)	Within 20 seconds
Slump (At 23°C)	Max. 3mm
Tack-Free Time (At 23°C)	Within 8 hours
>200%	>200%
2mm - 20mm	2mm - 20mm
2mm - 20mm	2mm - 20mm
Properties After Hardening	
Hardness (JIS K 6523)	35 (Spring-A-Type)
Tensile Strength (JIS K 6251)	2.94 MPa
Elongation (JIS K 6251)	1250%
Tear Strength (JIS K 6251)	9.8 N/mm

Adhesion Properties	Steel	Aluminium	Mortar
50% Modulus (MPa)	0.44	0.64	0.64
Max. Tensile Strength (MPa)	0.69	1.20	1.09
Elongation at Break (%)	330	580	570

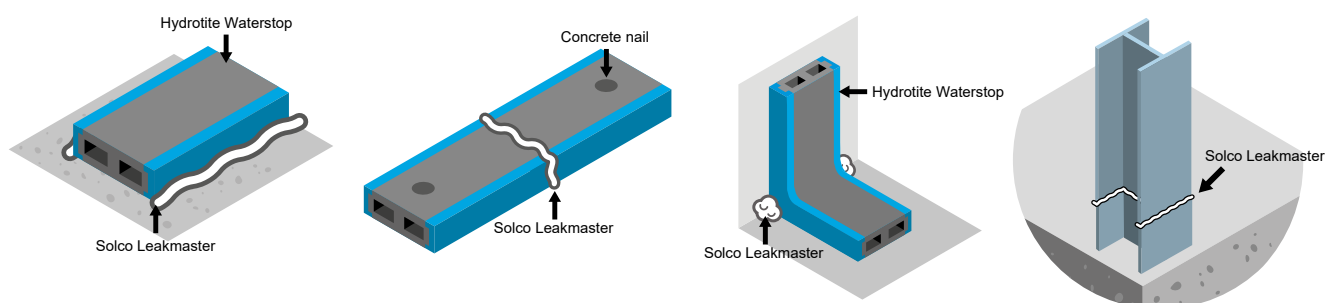
## Swelling Properties



Tests were carried out on a sample of Leakmaster measuring 20 x 10 x 50 mm. The sample was left to harden for seven days before immersion in water at a temperature between 15 and 20 degrees Centigrade. After ten days' immersion, an increase in volume of 100% was recorded.

## Application:

- Solco Leakmaster has a broad range of uses in construction and general building projects.
- Surfaces should be clean, dry, and free from dust or laitance.
- For best results, Leakmaster should be applied in a continuous bead.



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