

## LEAKMASTER - GUN GRADE ONE COMPONENT WATER SWELLING SEAL

### > PROPERTIES

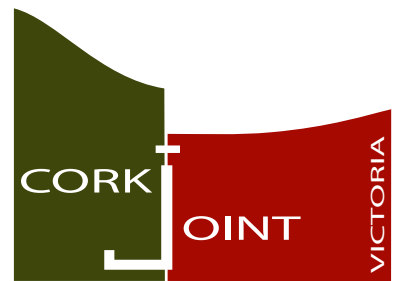
- Leakmaster is a moisture-cured single component hydrophilic urethane water sealant / adhesive with unique physical properties.
- After hardening or setting it retains its rubber like elasticity – it is urethane based with a Hydrophilic Resin.
- It will swell up to 2 times its Volume from its water absorption and swelling mechanisms.
- It has excellent adhesion to materials such as concrete, metal, glass etc.
- Prevents passage of water by exerting pressure between faces.

### > AREAS OF APPLICATION

- Water sealing at joints of Cast-In-Situ Concrete.
- Water Sealing around H beams and other steel penetrations where it is difficult or impossible to use Hydrotite. Also used over scabbled or other rough Concrete surfaces at a joint.
- Waterproofing work generally in contained situations.
- Sealing of Hydrotite butt joints and around conventional PVC waterstop (Surestop) to provide a belts and braces seal before concrete pour.

## LEAKMASTER -

### GUN GRADE ONE COMPONENT WATER SWELLING SEAL

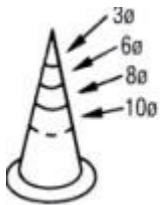


The Force in Jointing Material Solutions

#### > ADVANTAGES

- Can be applied to places such as corners, joints etc in Civil Engineering construction and water services for seals where conventional solid seals cannot be easily applied.
- Standard Caulking Guns can be used.
- Easy to use.

#### Average extrudable length for a given nozzle dimension



NOZZLE DIAMETER	LENGTH
3mm $\varnothing$ (1/8 in)	20-25m (125 ft)
6mm $\varnothing$ (1/4 in)	8-10m (30 ft)
8mm $\varnothing$ (3/8 in)	4-5m (15 ft)
10mm $\varnothing$ (1/2 in)	Approx. 3m (8 ft)

#### > SURFACE FINISH REQUIRED

- Clean and free from loose material and any grease, oil or organic material.

#### > APPLICATION METHOD

- Clean application surface of all debris, loose material and any organic material.
- Break the moisture-proofing aluminium foil on the top of the cartridge and knock out the metal sealing plate at the bottom.
- Cut the nozzle at the appropriate position diagonally.
- Approximate the extrudable length for given nozzle diameter.
- Concrete should not be poured over Leakmaster until it is cured, which takes approx. 12 hours (usually overnight).

#### > IMPORTANT PRECAUTIONS For INSTALLATION

- 50mm minimum cover to eliminate possible cracking when expanding.
- Do not use in open face joints. It will not be able to perform its design function.
- Do not leave in water more than 6 hours before encasing as it will expand and negate its function.
- Avoid eye and skin contact.
- Use only in well ventilated areas.

#### > STORAGE

- Store in a cool, dry place below 30°C
- Leakmaster has a shelf life of 12 months.

#### > PACKAGING

- Comes in 320ml cartridges
- 12 or 24 cartridge cartons

#### > GENERAL PROPERTIES

- Appearance: Putty Like

Color: Grey

Specific Gravity: 1.3

Extrudability: 20sec (at 23°C)

Slump: Max 3mm  
(at 23°C)

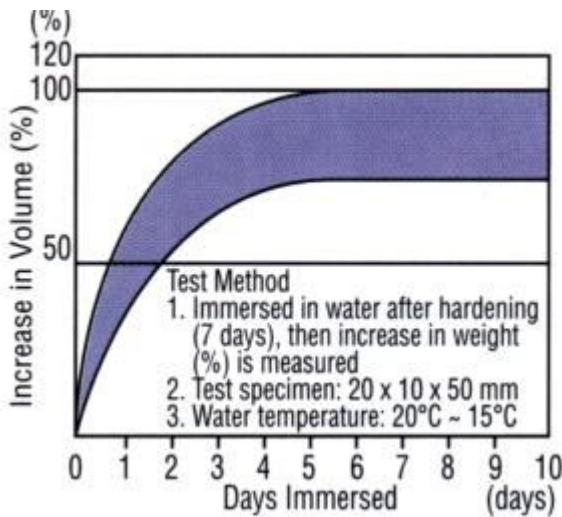
Tack Free Time: Within 8 hours  
(at 23°C, 60% RH)

Test Standard: JIS A5758

# LEAKMASTER - GUN GRADE ONE COMPONENT WATER SWELLING SEAL

## > PHYSICAL PROPERTIES

- Hardness:(Cured)
- Tensile Strength: 56.3kgf/cm<sup>2</sup>
- Elongation: 950% \*\*\*
- Expansion after Hardening: 155%



## > CHEMICAL RESISTANCE

ENVIRONMENT	TENSILE STRENGTH AT BREAK kgf/cm <sup>2</sup>	ELONGATION AT BREAK%
Alkaline Water	32.1	1100
Mortar Water	72.4	950
Hot Water	14.5	1350

- Alkaline Water - 1% Aqueous solution of Sodium Hydroxide at 60°C for one week.
- Mortar Water - 10% Mortar Solution at 60°C for 1 week.
- Hot Water - Ion exchange water at 70°C for 1 week.

## > SWELLING PROPERTIES

- Specimen: 20x10x50mm
- Water Temp: 20°C~15°C
- Immersed after hardening for 7 days & increase in weight (%) measured.

### \*\*\* Superior Performance Characteristics

## > ADHESION PROPERTIES

Test Standard JISA 5758	STEEL	ALUMINIUM	MORTAR
50% MODULUS (kgf/cm <sup>2</sup> )	4.5	6.5	6.5
Max TENSILE STRENGTH (")	7.0	12.2	11.1
ELONGATION AT BREAK %	330	580	570

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