

LEAKMASTER LV-Z

HYDROPHILIC GUN GRADE WATERSTOP

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PRODUCT DESCRIPTION

Leakmaster LV-Z is a one component polyurethane water-swelling sealant with excellent and unique physical properties. Its development was based on our technology and experience in water-swelling sealants. 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. After hardening, it has excellent physical properties together with rubberlike elasticity and water sealing properties.

ADVANTAGES

- Easy Application As a moisture-cure one component type water-sealing. Standard caulking guns can be used as for conventional sealants.
- Physical Properties After hardening, it has better physical properties than those of conventional putty type sealants
- Water-swelling Swelling up to approximately 2 times in Volume as a result of its water absorption.
- Good Adherence Before swelling it adheres to various materials such as concrete, metals, glass, etc.

AREAS OF APPLICATION

- Water sealing joints of cast-in-situ concrete
- Water sealing around “H” section steel posts/columns
- Rough surfaces
- Shotcrete joints
- Box culverts
- Can support 20m head of water
- Water sealing around pipes for pipe penetrations through concrete
- Form tie holes and form ties

PHYSICAL PROPERTIES

ITEM	UNIT	SPEC.	RESULT	TEST METHOD
Specific Gravity	-	1.30 ± 0.10	1.23	JIS A 5758
Extrusion Property	sec	max.20	3.4	JIS A 5758 at 23°C
Slump	mm	max. 3	1	JIS A 5758 at 23°C
Tack Free Time	hours	max. 8	6	JIS A 5758 at 23°C, 60% R.H

PHYSICAL PROPERTIES - AFTER CURED

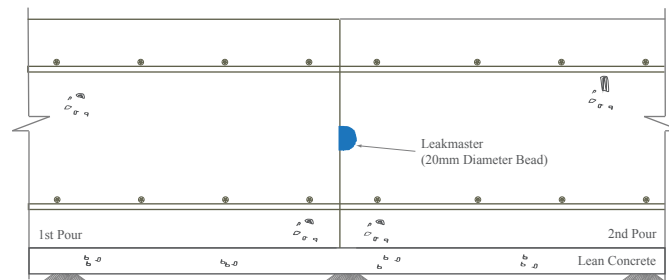
ITEM	UNIT	SPEC.	RESULT	TEST METHOD
Hardness	-	A41 ± 8/s	A39/s	JIS K 6253
Tensile Strength	MPa	5.8 ± 1.0	5.98	JIS K 6251
Elongation	%	1100 ± 250	1140	JIS K 6251
Tear Strength	N/mm	13.7 ± 3.9	14	JIS K 6252

SWELLING PROPERTIES

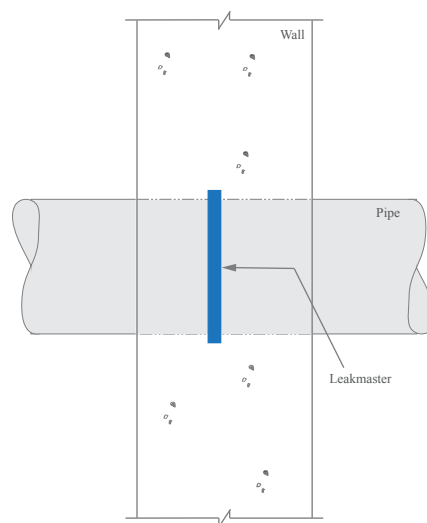
Specimen : Cured Products
 Temperatures : 15°C - 20°C
 Test Water : Distilled water
 Immersion terms : 7 days

ITEM	UNIT	SPEC.	RESULT	TEST METHOD
Weight Increase Rate	%	Min. 50	72	In house test

TYPICAL APPLICATIONS



Application of Leakmaster in Construction Joint of Wall or Slab



Application of Leakmaster around pipe penetration through wall (cast-in-situ method). The same application can be applied for slab areas.

APPLICATION PROCEDURES

1. Break the moisture-proof aluminium foil on the top of the cartridge, and remove the metal back seamer from the bottom.
2. Cut the nozzle diagonally at the required appropriate position to achieve desired amount.
3. Average extrudable length vs. nozzle diameter.
4. Set the cartridge to caulking gun.
5. Apply Leakmaster continuously without a break to the location to be sealed.

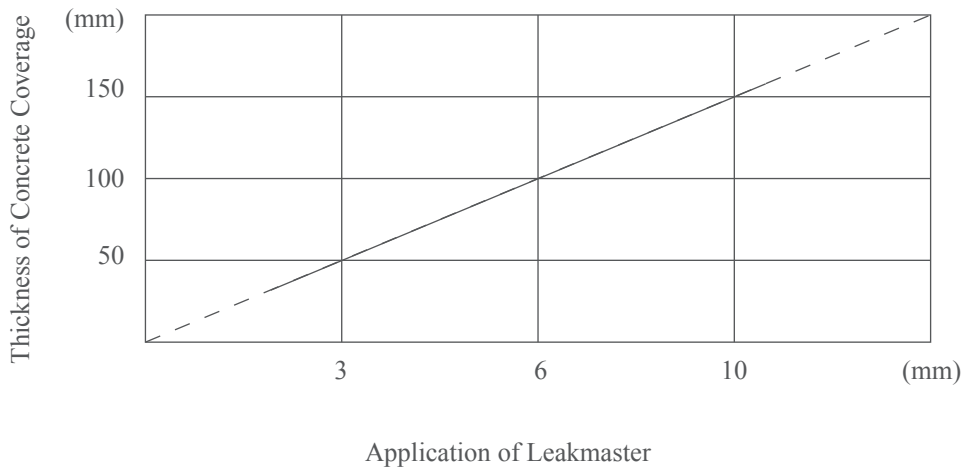
PACKAGING

• Contents	320 ml / cartridge
• Unit	24 cartridges / carton

IMPORTANT PRECAUTIONS

1. Minimum cover to Leakmaster installed application form any outside edge. Refer to Figure 1 below.
2. Do not apply in an external or surface position.
3. Do not leave exposed to water for longer than 6 hours prior to second concrete pour being placed.
4. Allow to cure (harden) prior to pouring next concrete pour.
5. Use open cartridges within 24 hours after breaking moisture-proof foil.
6. Store in cool dark and dry place.
7. Shelf life of approximately 12 months from production date.

FIGURE 1 :



WRITTEN SPECIFICATION

Where shown on the drawings, the hydrophilic gun grade waterstop sealant shall be Leakmaster LV-Z as supplied by AITKEN FREEMAN. The Hydrophilic gun grade waterstop sealant is to be polyurethane based and able to be adhered on to concrete, steel, ceramic and/or plastic surfaces. It must have a minimum expansion capability of two times by volume (200%) and be able to withstand a minimum of 2.0 bar (20 meters) of hydrostatic head pressure resistance and proof of this must be provided by an independent laboratory test report. The product must be installed in accordance to the supplier's installation guidelines and the design engineer's specification.

HEALTH AND SAFETY

For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Material Safety Data Sheet (MSDS), which is available upon request. In confined spaces or in still air conditions, the use of a ventilation fan or suitable respirator should be used, and the advice and approval of the Site Safety Supervisor is essential.

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The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from the recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in this brochure may change at any time without notice.

Effective Date: 7 November 2016

