

AQUA TACKSEAL - Butyl Rubber Sealing Materials -

C.I. AQUA TACKSEAL is water swelling semi-vulcanized butyl rubber sealing material exclusively developed for joints in precast manholes.

■Features

EXPANSION CHARACTERISTICS

It expands approx. 2times in volume as shown in Fig. 1. It also shows a higher expansion rate even in alkali solution.

SELF-TACKINESS

It demonstrates good self-tackiness to the surface of concrete, metals and etc.

GOOD PHYSICAL PROPERTIES

As main material of this product is semi-vulcanized Isoprene-Isobutylene Rubber (IIR), so called butyl rubber, it has good elasticity, stability and durability.



■Water Sealing Mechanism

C.I. AQUA TACKSEAL has a specific double action making it superior to conventional sealants. Initially, it seals uneven surface with its tackiness and elasticity. Secondly it absorbs water thus expanding within the joint gap and increasing sealing pressure water leakage is prevented.

■Main Application

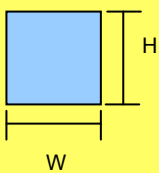
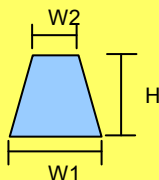
Seal for the joints in precast manholes.



■Physical Properties

Item	Unit	Standard	Typical	Test method
Specific gravity	-	1.25±0.05	1.25	JIS K-7112
Hardness	(Hs)	20±1	20	Ref. JIS K-6301
Tensile strength	kgf/cm ²	Min. 1	1.2	
	kPa	Min. 88	118	
Elongation at break	%	Min. 1500	2000	
Tackiness	kgf/cm ²	Min. 2.0	4.2	In-house test
	kPa	Min. 196	410	

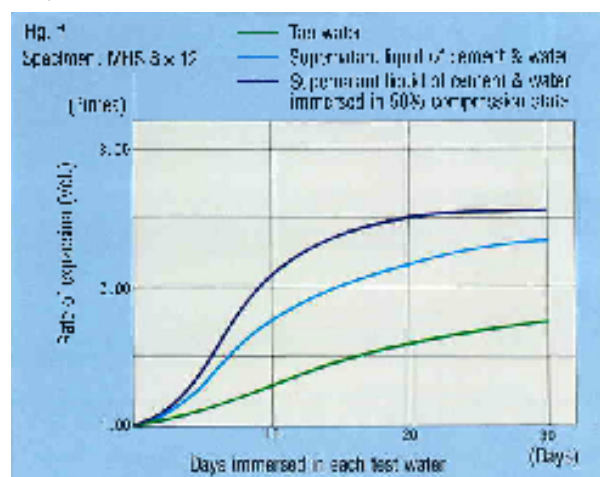
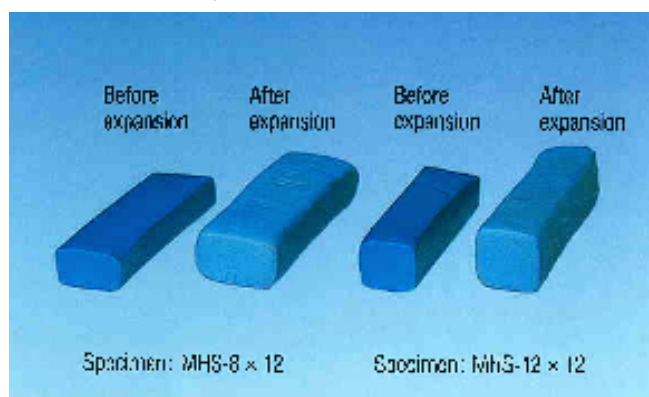
■Available Size

Code	Size (m)	Shape	Length/ reel (m)	Reels/ carton
MHS-14X14	14 X 14		5.00	12
MHS-12X12	12 X 12		3.25, 3.70, 4.25	20, 10, 12
MHS-8X12	8 X 12		3.20, 3.70, 5.00*	30, 30, 16
MHS-5X10	5 X 10		3.00*	40
MHS-5X17	5 X 17		5.00*	12
MHS-14X0814	14X8X14		5.00*	5

Note: * is made to order

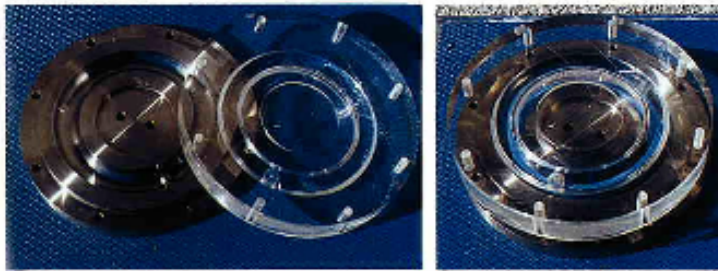
■Expansion Characteristics

As shown in Fig. 1, it expands approx. 2 times in volume in tap water. It shows a higher expansion rate in alkali solution and its expansion is enhanced further when in the compressed state.

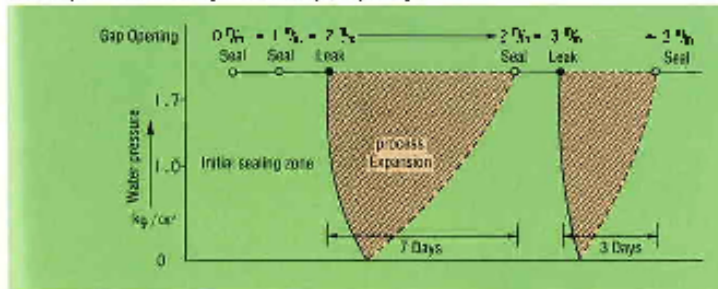


■Water Sealing Property

Water sealing test under gap opening conditions with model flanges.



Test for gap
Property of water sealing under the gap opening.



Field test proves that it seals water even after leakage is observed at the initial stages.



■Installation Method and Procedures

1. Remove laitance, mud and sand from the joints surfaces with a wire-brush.
2. Place AQUA TACKSEAL at the proper position taking care not to twist the product.
3. Stick AQUA TACKSEAL to precast concrete segment joint by pressing on releasing paper with fingers.
4. When it is required, AQUA TACKSEAL can be jointed by scarf joint.
5. Just before place 2nd precast concrete on to the 1st concrete segment, peel off release papers.

■Precaution

1. Break the plastic cover just before using AQUA TACKSEAL to prevent from premature expansion.
2. Keep away from water. Store in a cool, dark and dry place.
3. Do not use in an external application and/or a surface position.
4. Do not swallow and avoid eye contact.
5. Keep out of the reach of children.
6. Do not use in an application contacting potable water.

Warranty

All statements regarding this product are based upon procedures and tests which we believe are reliable, and may be changed for improvement of quality without any notice; but it will be the sole responsibility of the customer and/or end user to use this product properly, and therefore assume all risk and liability in connection therewith.

C. I. Kasei Co., Ltd. Warrants its products to be of good quality and will replace product proved to be defective. In no instance will C. I. Kasei Co., Ltd. be liable for labor costs or incidental damage associated with the use of this product, unless stated in a warranty for a specific project.