
Product Data

One-Component Low Modulus Silicone Sealant

TOSSEAL817

TOSSEAL817 is a one-component, semi-flowable, neutral cure type silicone sealant that cures on exposure to atmospheric moisture at room temperature to a long-lasting silicone rubber sealant. TOSSEAL817 provides excellent adhesion to not only concrete but most construction materials and exhibits both superior high and low temperature resistance and water resistance, in addition to outstanding weatherability. The extremely low modulus characteristic of TOSSEAL817 minimizes strain on the surface of the substrate, allowing for excellent recovery from compression and extension.

TOSSEAL817 is highly suitable for application in horizontal concrete joints that are subjected to relatively high joint movement, such as the expansion joint, longitudinal and transverse joints in concrete road, pavement, warehouse and parking slab, etc.

KEY PERFORMANCE PROPERTIES

- ◆ One component, ready-to-use sealant
- ◆ Extremely low modulus
- ◆ Semi-flowable type
- ◆ Room temperature cure
- ◆ Easy gunnability over a wide temperature range
- ◆ Excellent weatherability and ozone resistance
- ◆ Excellent high and low temperature resistance
- ◆ Excellent adhesion to concrete and most construction

APPLICATIONS

- ◆ Horizontal joint sealant for use in concrete structures
Railway, Highway, Runway
- ◆ Horizontal joint sealant for use in building floors, parking lots

TYPICAL PROPERTY DATA

(JIS A 1439)

UNCURED PROPERTIES		
Appearance		Gray, semi-flowable paste
Specific gravity (23°C)		1.17
Tack-free time (23°C)	h	1.5
Viscosity (23°C)	Pa·s {P}	80 {800}

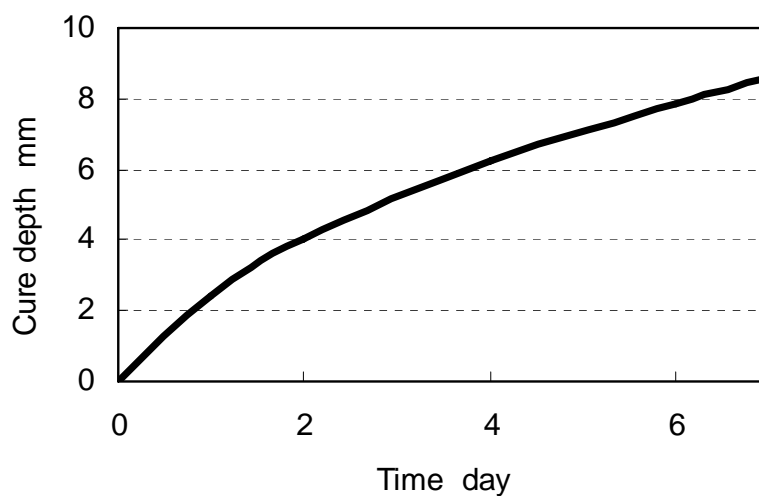
SHEET PROPERTIES* ¹		
Hardness (Type A)		5
Hardness (Type E)		22
Tensile strength	MPa {kgf/cm ² }	0.8 {8}
Elongation	%	1200
CURED PROPERTIES* ²		
Substrate		Mortar* ³
50% modulus	MPa {kgf/cm ² }	0.08 {0.8}
Maximum tensile strength	MPa {kgf/cm ² }	0.45 {4.6}
Elongation under maximum load	%	600
Elongation at break	%	600

*1 Cure condition: 23°C, 50%RH, 7days JIS K6301

*2 Cure condition: 23°C, 50%RH, 14days + 30°C, 14days

*3 Primer: Tosprime C

CURING PROPERTIES (Condition: 23°C, 50%RH)



PRIMER

Priming is necessary for good adhesion.

SUBSTRATE	PRIMER
Concrete, Tile, Mortar	Tosprime C
Glass, Metal, Painted metal	Tosprime D

Note: A preliminary adhesion test of sealant on the substrate is recommended to ascertain proper adhesion.

APPLICATION INSTRUCTIONS

◆ SURFACE PREPARATION

Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, acetone or toluene. Do not use soap, detergent or water. Wipe the surface dry. Sealant will not properly adhere to a wet substrate.

◆ MASKING

To obtain a neat sealant line, use masking tape to cover areas adjacent to any joints before priming.

◆ PRIMER

A preliminary adhesion test of sealant on the substrate is recommended to ascertain proper adhesion. Regarding special substrates, please contact us.

NOTICE

- ◆ Cured sealant is not flame retardant.
- ◆ Color change may occur by contact with some synthetic rubbers such as EPT or CR.
- ◆ Copper may corrode in closed condition.

HANDLING AND SAFETY

- ◆ Wear eye protection and protective gloves as required while handling the product.
- ◆ Use the product in a well ventilated area.
- ◆ In case of eye contact, immediately flush eyes well with water and contact a physician.
- ◆ Extended contact with the skin may cause irritation and should be avoided.

STORAGE

- ◆ Store in a cool and dry place out of direct sunlight.
- ◆ Keep out of the reach of children.

PACKAGING

- ◆ 600ml sausage pack available in cases of 20
- ◆ 20kg pail
- ◆ 220kg drum

Issued Apr. 2008/2st Revised May. 2012 TOSSEAL817 E

FOR INDUSTRIAL USE ONLY

It is the responsibility of the user to determine the suitability of any Momentive Performance Materials Japan product for any intended application. NEVER USE ANY MOMENTIVE PERFORMANCE MATERIALS JAPAN PRODUCT FOR IMPLANTATION OR INJECTION INTO THE HUMAN BODY. Specifications are available by contacting Momentive Performance Materials Japan. Typical property data values should not be used as specifications. Inasmuch as Momentive Performance Materials Japan LLC has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the suitability of the material for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Momentive Performance Materials Japan patent covering use or as recommendations for use of such materials in the infringement of any patent. Material Safety Data Sheets are available upon request from Momentive Performance Materials Japan. The contents of this catalog are subject to change without notice. No part of this data may be reproduced without the prior approval of Momentive Performance Materials Japan.



Momentive Performance Materials Japan LLC

<http://www.momentive.com>

Technical Answer Center (Japan): Phone: +81-276-20-6182 FAX: +81-276-31-6259

Tokyo Head Office: Phone: +81-3-5544-3111 FAX: +81-3-5544-3122