# Penguin Seal 2550LLL

**One-component Modified Silicone-Based Sealant** 

**High-modulus type** 



# **Applications**

- [Exterior] Sealing various roofing materials such as polyvinyl chloride-lined steel plates and colored galvanized plates
  - Sealing joints or overlaps between roof and wall material or between sheet metal and construction material
  - Sealing areas around pipes attached to exterior walls or around ducts
  - Sealing the edges or upright parts of waterproof sheeting

[Other]

- [Interior] Sealing unit baths, kitchens or bathroom vanities
  - Sealing joints or overlaps in vehicles and ships
  - Sealing connections in machines and electrical parts

# **Features**

#### Good workability

Less temperature-dependent and has stable workability at a wide range of temperatures. Provides smooth extrusion at low temperatures, which results in good workability.

#### **Quick curing**

Unparalleled curing speed: tack-free time (at 20°C) is 30 min - 1 hr

# **Excellent adhesive strength**

In almost all types of application, using primer US-1 and UM-2 gives 2550HM high adhesive strength.

#### **Excellent stain resistance**

Non-staining, especially when used on stone, tile, and mortar

#### Highly durable, with minimal curing shrinkage or unpleasant odor

		G	eneral	propertie	s	
		Item			Result	
		Class			F <del>-</del> 12.5E	
[	Ourability (	category by JIS	A 5758	8	020 equiva <b>l</b> en	t
			50°C		0	
	Slump _	Vertica <b>l</b>	5°C		0	
	(mm)	Horizontal	50°C		0	
		HOHZOHIlai	5°C		0	
	Elasticit	y recovery rate	e (%)		52	
	Volu	me change (%	5)		8.3	
Sh	elf life (in mo	onth, stored at 25°	C or lower)		12	
	Specific	c density (at 20	O°C)		1.48	
Ex	trusion tir	ne (sec)	5°C		4	
Та	ck-free tin	a a (la u)	5°C		8 <b>-</b> 24	
la	ck-iree un	ne (nr)	20°C		0.5-1	
	ternal curi omplete c	ng time (day)	5°C		10	
	mm thick		23°C		3	
yth	Test material	Processing conditions	Temperature	50% tensi <b>l</b> e strength (N/mm²{kgf/cm²})	Maximum tensile strength (N/mm²{kgf/cm²})	Elongation at maximum load (%)
trenç		After curing	23°C	0.20{2.0}	0.65{6.6}	210
Tensile adhesive strength	Aluminum plate	After heating	23°C	0.22{2.2}	0.70{7.1}	190
dhes	рыне	After water immersion	23°C	0.18{1.8}	0.59{6.0}	200
sile a		After curing	23°C	0.20{2.0}	0.62{6.3}	200
Tens	Mortar plate	After heating	23°C	0.23{2.3}	0.68{6.9}	190
	plate	After water immersion	23°C	0.18{1.8}	0.54{5.5}	150

<sup>\*</sup> Testing of each item complies with JIS A 1439.

# **Amount used**

Joint width (mm)

		5	10	12	15	18	20
Latina	5	11.6	5.8				
Joint	7		4.1	3.4			
depth (mm)	8		3.6	3.0	2.4		
(mm)	10		2.9	2.4	1.9	1.6	1.4
	12			2.0	1.6	1.3	1.2

<sup>\*</sup> Workable length with one tube of Penguin Seal 2550HM (320 ml) (including 10% loss) \* For joints with large movement, 10 mm x 10 mm is recommended.

# **Precautions for Use**

- Do not use on joints involving glass.
- Do not apply the sealant at ambient temperatures below 5°C, or when the material is wet after rain or snow.
- Wet conditions may lead to seal failure or seal expansion. Dry the surface completely before use.
- To clean the receiving surfaces, use a non-abrasive cleaning agent. Do not use alcohol for cleaning.
- Make sure to use the specified primer. Always apply a primer to the surface to which the sealant is to be applied.
- Primer is susceptible to water. Make sure that no water is mixed into the primer.
- When a primer can is opened, use it up within the day, if possible.
- Apply the sealant using the appropriate joint width and depth.
- ●If a substrate is used, use a bamboo knife to make sure that application surface has no scratches and is smooth (the sealing material may inflate).
- ullet Attach masking tape to the edge of the joint. If the sealing material is extremely thin, whitening may occur.
- Some types of paints may have poor adhesion or be sticky. Check whether the paint type is appropriate for the application.
- If paint is to be applied after sealing, painting should be performed within one week after the sealing surface is cured.
- Store the product in a dark and cold place (25°C or lower), away from moisture, fire and direct sunlight.
- The empty cans are regarded as industrial wastes. Ask an approved agency for disposal of them.
- <First-aid Treatment>
- Skin contact: Remove the sealant with a rag or something similar. Wash with soap and plenty of water. If itching or irritation occurs, seek medical attention immediately.
- Eye contact: Wash with clean water for at least 15 minutes. Seek medical attention immediately.
- •Inhalation of fumes: Move to a fresh air area. Keep the body warm and at rest. Seek medical attention immediately.
- ●Ingestion: Wash the mouth with water (induce vomiting, if possible). Seek medical attention immediately.
- Contact with clothing: Remove with a rag or something similar. Wash with water. Make sure to avoid contact with clothing since Penguin Seal cannot be removed completely.

We have no responsibility for results caused by using this product without following the precautions for use.

Volui	me and packing form	
Product name	Volume	Quantity
Penguin Seal 2550HM	Cartridge 320 ml	10 tubes 2 boxes 5 tubes
(High modulus type)	Cartridge nozz <b>l</b> e	5 tubes — 2 boxes

For the cartridge gun, "SUNSTAR MAGNUM 33" is recommended.

# Primer

Product name	Volume	Quantity
Primer US-1	500 ml	10 cans/box
Primer UM-2	500 ml	10 cans/box

Penguin Seal 2550LM (low modulus type) is recommended for sealing the joints of siding material or ALC plates.

Notes

The information contained in this catalogue is based on our test results of the product. However, the properties of the product may be different according to the application conditions, therefore, confirm those conditions carefully before use. The product descriptions contained in this catalogue are subject to change without notice.

# SUNSTAR ENGINEERING, INC.

Tokyo Office:	Mita 1-3-36, Minato-ku, Tokyo, 108-0073	
Sapporo Sales Office:	Sapporo Ryutsu Soko Higashi Bldg. 5f, Kikusui-nanajo 2-7-1, Shiroishi-ku, Sapporo-shi, Hokkaido, 003-0807	TEL:011-820-2580
Sendai Sales Office:	Ace 21 Bldg. 4F, Kitame-machi 1-15, Aoba-ku, Sendai-shi, Miyagi 980-0023	TEL:022-261-3391
Nagoya Office:	Kayaba 2-4-7, Chikusa-ku, Nagoya-shi, Aichi, 464-0086	TEL:052-722-6815
Shizuoka Sales Office:	Nishi-nakahara Bldg. 3F, Nishi-nakahara 2-1-10, Suruga-ku, Shizuoka-shi, Shizuoka, 422-8053	
Kanazawa Sales Office	e: Kowa Bldg. 6F, Hirooka 1-2-14, Kanazawa-shi, Ishikawa, 920-0031	TEL:076-222-0571
Osaka Office:	Aketa-cho 7-1, Takatsuki-shi, Osaka, 569-0806	TEL:072-681-0759
Hiroshima Sales Office	e: Shoko Center 5-15-25, Nishi-ku, Hiroshima-shi, Hiroshima, 733-0833	TEL:082-277-8444
Shikoku Sales Office:	Chokushi-cho 81, Takamatsu-shi, Kagawa, 761-8058	TEL:087-866-6231