

Technical Data Sheet

VersatSIL N88 High temperature Silicone Sealant

One component medium modulus neutral cure sealant

Key Features & - Formulated to withstand high temperature up to 250 degrees Celsius intermittently

Benefits - medium modulus, high recovery, and excellent strength performances

- Easy and quick extrusion rate in all weather conditions.

Curing - Neutral curing silicone sealant

Technology - 1K (one part) moisture cure, no need for mixing

- No shrinkage

Common - Sealing of joints and gaps of areas in contact with high temperature.

Applications - Typical applications: ovens, machineries where high temperature may occur.

Typical characteristics

Note: Values presented hereby are representation of typical properties of the sealant, actual properties may differ due to the conditions of working zone.

<i>Test</i>	<i>Characteristics</i>	<i>UNIT</i>	<i>RESULT</i>
	<i>As supplied</i>	-	
	<i>Colors</i>	-	Colors upon request
	<i>Application Temperature</i>	°C	-5 to 40
	<i>Skin Over time (TFT) 50% RH</i>	<i>Minutes</i>	Approx. 20mins
	<i>Curing Time, 3/8" (9 mm) Depth, 50% RH at 25°C (77°F)</i>	<i>Days</i>	Approx. 2-3days
ASTM C639-15 Rheological properties	<i>Vertical (50 °C)</i>	<i>mm</i>	0
	<i>Vertical (4.4 °C)</i>	<i>mm</i>	0
	<i>Horizontal (50 °C)</i>	-	No Deformation
	<i>Horizontal (4.4 °C)</i>	-	No Deformation
CNS 8904 Tensile strength @ 23 °C	<i>Glass</i>	<i>N/mm²</i>	0.41
	<i>Aluminum</i>		0.42
ASTM C1135-19 Tensile Adhesion Strength	<i>Glass</i>	<i>Elongation %</i>	130%
	<i>Aluminum</i>		128%
<i>AFTER FULLY CURED</i>			
CNS 3555	<i>Durometer Hardness, Shore A</i>	-	40
CNS 3553	<i>Ultimate Tensile Strength (Type 1A , V=500 mm/min)</i>	<i>Kgf/cm²</i>	19.4
CNS 3559	<i>Tear Strength (Type C , V=500 mm/min)</i>	<i>Kgf/cm</i>	5.9
ASTM C1183-13	<i>Extrusion Rate</i>	<i>mL/min</i>	89.6
ASTM C793-05 Accelerated Weathering	<i>After weathering (QUV/250h)</i>	-	No.0
	<i>Frozen cracking after weathering (Remark.1)</i>	-	No.0

Remarks:

- After weathering test, specimens conditioned at -26 °C for 24 hours then bending the specimen over the mandrel (ø12.7mm) around 180° within 1 second.
- Test Level: 20 HM (60%).

3. Tensile test conditioning: Type A.
4. Tensile adhesion strength conditioning: standard state 14 days and 30 °C ; 14 days.

Description

VersatSIL N88 weatherproofing silicone sealant by Jinyang Chemicals is specifically formulated to provide excellent adhesion on most non-porous substrate. With its medium modulus, it remains elastic in all temperature and places after fully cured. Specially formulated for use in high temperature applications, resistant to temperature up to 250 degree Celsius intermittently. With 1K moisture cure technology, no mixing is required; therefore, high efficiency could be achieved. The product provides high quality at competitive prices allowing it to be the most economical in the current market.

How to use

The standard color for this product is red.

Preparations on applied surface

Please ensure that the surface to be applied are properly cleaned to achieve best adhesion results. Removal of dust, grease, and other possible contaminants must be removed. For grease removal, use acetone, and solvents alike to make sure that the surface is cleaned properly.

Use of primers

To ensure optimum adhesion properties, primers can be used accordingly. VersatSIL N88 itself adheres to most substrates but shall be tested before applying.

Applications steps

The sealant comes in 300ml plastic cartridge and is ready to use by cutting the tip of and screwing nozzles on top. The nozzle can be cut to different angles for ease of application.

Packaging Storage life

VersatSIL N88 comes in at 300ml plastic cartridges. One box contains 25 pieces.

The sealant should be stored in cool, dry places without direct sunlight. Below 25 degree Celsius, the sealant has an usable life of 12months (starting from the date of manufacturing) in its original plastic container.