<NITTO FLOCKED SEALANT>

NO.652V

Outline

NITTO FLOCKED SEALANT NO.652V is a tape form sealing material electrically flocked on both sides, consisting of EPDM excellent in ozone, weathering, heat and water resistance, petroleum resin and additive.

Structure

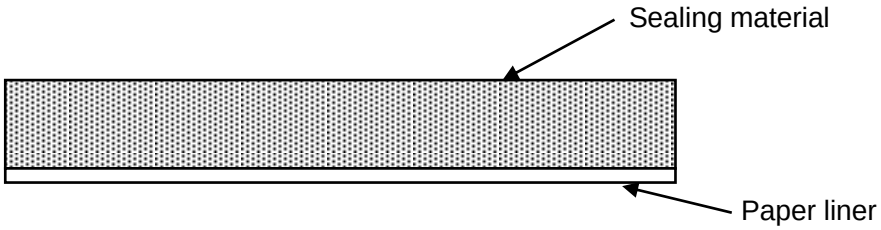

Fig-1

Features

- It has good plasticity and provides excellent conformability to irregular surfaces and excellent watertightness.
- Readily sticks to not only concrete and mortar but also metal and wood.
- The material is applied without removal of the paper liner, so, the hands are not contaminated and furthermore, the material is dimensionally stable in application.
- The liner of same width as the sealing material makes application easy.
- Excellent dimensional stability during storage and after application due to good high temperature resistance.
- Excellent weatherability and chemical inertness.

Standard size

Table-1 Standard sizes

Thickness (mm)	Width (mm)	Length (m)	Color	Remark
1.0	5 – 440	15	Black・Gray	Paper Liner
2.0		15	Black・Gray	
3.0		10	Black・Gray	Polyethylene Liner

*For other sizes, please contact us.

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Property

● General properties

Table-2

Item	Unit	Black	Gray
a) Specific gravity	g/cm3	1.18	1.30
b) Consistency	1/10mm	90	67
c) Compressive Strength	N/cm2	31.4	41.2
d) Adhesion	N/cm2	4.3	7.8
e) Heat Distortion	mm	2.2	0.6
f) Hardness	-	23	28

*Test method
a) Measured at room temperature.
b) Measured at room temperature with a penetrometer specified by JIS K 2530.
Total load: 100g Needle: 3mm dia.
A sample shall be put into a 60mm dia. Cylinder with 30mm height.
c) The force required to compress a sample by 50% at a rate of 100mm/min shall be measured at room temperature.
d) Sample having the size of 10mmx10mmx50mm is inserted between a pair of aluminum plates and compressed by 50% at room temperature, then, left for 24 hours as it is. After that, the peel strength shall be measured at a testing rate of 5mm/min.
e) Sample having the size of 10mmx10mmx50mm shall be put on an aluminum plate and heated at 80℃ for 24 hours. After that, the change of thickness shall be measured.
f) The hardness of a 10mm thick sample shall be measured at room temperature with Type U JIS hardness meter.

● Consistency vs. Temperature

Table-3

Sample	0℃	20℃	40℃
Black	42	90	165
Gray	29	67	87

● Compressive Strength vs. Temperature

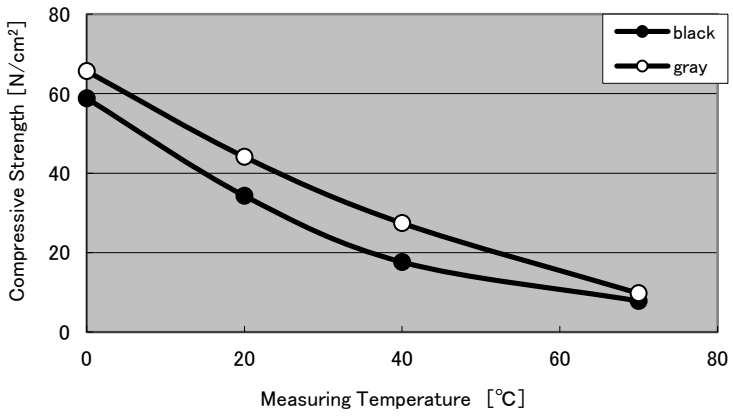

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Fig-2

● Tensile Strength vs. Temperature

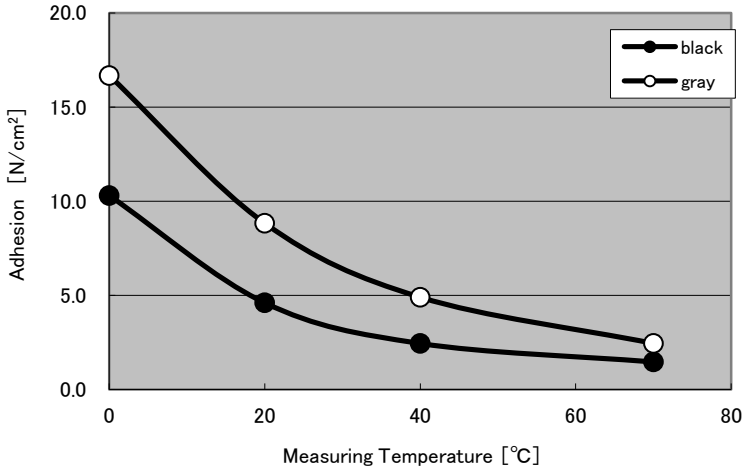

Fig-3

● Water Resistance

Table-4

Sample	Change of Weight (%)	Adhesion (N/cm2)
Black	+0.88	4.3
Gray	+0.56	7.9

*Test method

a) A sample having the size of 10mmx10mmx50mm shall be put into water kept at 60℃ for 7days, then, the change of weight shall be calculated as follows:

$$\text{Change of weight (\%)} = \frac{B - A}{A} \times 100$$

A=initial weight B=weight after immersion

b) A sample having the size of 10mmx10mmx50mm shall be inserted into a pair of aluminum plates at room temperature and compressed by 50%, then, immersed in water kept at 60℃ for 7days. After that, the adhesion shall be determined.

● Chemical Inertness

Table-5 (unit:%)

Sample	HC1 30%	H_2SO_4 10%	NaOH 30%	$Ca(OH)_2$ Saturated
Black/Gray	-0.22	+0.08	+0.12	+0.18

*Test method

Samples shall be immersed in each chemical listed above at room temperature for 7 days, then the change of weight shall be calculated.

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● Weatherability

Table-6

Exposure time (h)	Black	Gray
100	Constant	Constant
300	Constant	Only surface slightly discolored but not deteriorated.
500	Constant	
1000	Constant	Surface discolored and slightly hardened but not deteriorated.

*Test method
a sample shall be applied to an aluminum plate, then, exposed to sunshine weathermeter as specified. After that, the appearance shall be visually inspected. (108 exposure hours are equivalent to about 1 year outdoor exposure.)

Cautions Concerning Use

● For Usage
1) Before application, remove oil and grease, moisture and water, dirt and dust from the surface of the substrate.
2) Make the rough surface smooth as much as possible by sandering or so.
3) Application of primer is recommended for the rough surface.
4) Primer is flammable, so give special attention to a fire source.
5) Apply NO.652V after the compressing ratio constant.
6) Do not use NO.652V in the area susceptible to oil.
7) Apply NO.652 with paper liner, then, remove the liner.
8) It is recommended to apply and store NO.652V at 0 ℃ or above, if not, the adhesive strength is likely to be decreased.

● For Storage
1) Store NO.652V evenly in order to avoid deformation.
2) Store NO.652V at a cool and dark place away from direct sunlight.

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