

# Flexseal NS901

One component neutral cure high modulus elastomeric silicone weather-proof sealant with mould resistance (Formerly known as Aylaseal 901)



## DESCRIPTION

Flexseal NS901 is a one-part neutral cure, high modulus, non-sag, elastomeric joint sealant which can be used internally and externally. Flexseal NS901 cures on exposure to atmosphere to form a firm but flexible rubber.

Flexseal NS901 does not need primer when applied on non porous surfaces including solid concrete, aluminum or glass. Based on full cure, Flexseal NS901 can be used under submerged conditions.

## APPLICATIONS

Recommended for sealing expansion and construction joints, internally and externally. It is used for sealing joints in buildings and industrial structures for:

- » Joints between concrete, wood, metals and anodized aluminum.
- » Floors joints.
- » Wall joints.
- » Wall to floor and wall to ceiling joints.
- » Precast panels.
- » Curtain walls.
- » In contact with water or submerged conditions.
- » External applications that require enduring changing weather conditions.

## ADVANTAGES

- » Single component ready for use.
- » 25% movement accommodation factor.
- » UV resistant.
- » Excellent sagging and weathering characteristics.
- » Excellent mould resistance.
- » Excellent adhesion to most building substrates.
- » Available in a range of colours.

## STANDARDS

Flexseal NS901 complies with ISO 11600 F-25HM specifications. ASTM C920, Type S, Grade NS, Class 25, Use T, NT, I, M, G, A and O.

## METHOD OF USE

### JOINT SURFACE PREPARATION

Surfaces must be clean, dry and free from dust, grease, oils and all other contaminants.

## TECHNICAL PROPERTIES @ 25°C, 50% RH:

Colour:	White and black <i>other colours are available upon request</i>
Density:	1.5 ± 0.2 g/cm <sup>3</sup>
Shore A hardness:	40 ± 5
Movement accommodation :	50% for lap joints 25% for butt joints
UV resistance:	Excellent
Sag resistance:	Excellent
Service temperature:	-40 up to 150°C
Application temperature:	5 to 50°C
Curing rate:	2 - 3 mm/day
Skin-over time:	15 - 60 min (depending on colour)
Tensile strength: ASTM D412	≥ 1.5 MPa
Elongation: ASTM D412	≥ 300%
VOC:	< 15 g/ltr

## JOINT BACKING

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth.

## APPLICATION

Flexseal NS901 is supplied in cartridges and can be applied into the joint using a Skeleton Gun. Cut off cartridge top, cut nozzle to required size, attach the nozzle to the cartridge. It is recommended to cut the nozzle at a minimum of 6 mm size for ease of extrusion.

Extrude the sealant firmly against the joint surfaces to ensure complete contact. Tool the sealant into the joint to compact and achieve a good surface finish. Tool within 5 minutes after sealant is applied.

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It is recommended to use masking tape on each side of the joint to maintain the joint sides clean and uniform, remove the masking tape directly after tooling the sealant.

*Note: For optimum performance, avoid keeping the sealant in extremely hot or cold conditions for extended periods of time.*

## LIMITATIONS

Product is not approved for use when surface is:

- » Temperatures exceed 50°C.
- » Temperatures below -5°C.
- » Frost-laden.
- » Wet.

## CLEANING

Uncured sealant can be removed using DCP Solvent, cured sealant should be removed mechanically.

## PACKAGING

Flexseal NS901 is available in 280 ml cartridges and 600 ml sausages.

## SEALANT QUANTITY ESTIMATOR

Joint size mm	Meters per 280 ml cartridge
6 x 6	7.77
10 x 5	5.10
10 x 10	2.80
20 x 10	1.40
20 x 20	0.70
25 x 12	0.93
25 x 25	0.45
30 x 15	0.62
30 x 25	0.37
40 x 20	0.35
40 x 25	0.28
50 x 25	0.22

## JOINT SIZE SUITABILITY

*Joint width\*:*

- » 6 mm minimum (for movement joints).
- » 50 mm maximum (with multiple applications).

*Joint depth:*

- » Half the joint width.

## STORAGE

Flexseal NS901 has a shelf life of 9 months from date of manufacture if stored in a dry and shaded place away from humidity at a temperature between 5 - 35°C in original unopened packaging.

If these conditions are exceeded, contact DCP Technical Department for advice.

## CAUTIONS

## HEALTH AND SAFETY

If Flexseal NS901 comes into contact the eyes, flush with copious volumes of cold water and obtain medical attention.

For further information, refer to the Material Safety Data Sheet.

## FIRE

Flexseal NS901 is nonflammable.

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- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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