

MasterSeal[®] 123NS

Non-staining, premium performance, silicone sealant

DESCRIPTION

MasterSeal 123NS is a high grade, neutral cure silicone which is completely free of plasticisers. Because of the purity of its formulation, the product will reduce staining to an absolute minimum on natural stone and other strongly absorbing substrates. Unsightly, dark window-frame staining is thus avoided. It is virtually odorless during cure. It is non-slump, with excellent resistance against UV, weather and water, which can be used in vertical and horizontal joints, in internal and external environments, to provide a long-term, durable, elastic seal.

TYPICAL APPLICATIONS

MasterSeal 123NS has been developed specifically for sealing vertical and horizontal, movement and construction joints between natural stone tiles, pavers, slabs and cladding in internal and external areas.

Because it is neutral curing, **MasterSeal 123NS** can also be used to provide long lasting elastic sealing of expansion and construction joints in concrete, blockwork and brick masonry without priming.

Also recommended for curtain wall construction, glazing systems, swimming pools, bathrooms, showers, kitchens and wet rooms in residential, commercial and industrial buildings.

ADVANTAGES

- No plasticisers or extenders: virtually non-staining on natural stones and other strongly absorbing substrates
- Perfect bond without primer on most common substrates: saves time and money
- High grade silicone: excellent UV, weather and water resistance, elasticity and resilience and extra-long service life
- Range of colors: to match most natural stone tiles

PACKAGING AND COLORS

MasterSeal 123NS is supplied in boxes of 12 x 310 ml cartridges, 24 x 280 ml cartridges and 20 x 600 ml sausage and available as Clear, White (RAL 9010), Light Grey (RAL 7035), Concrete Grey (RAL 7040), Light Ivory (RAL 1015), Black, Mahogany Brown (RAL 8016) and Bronze (RAL 1036)

Note: The colours mentioned are closest match to the RAL Nos.

STANDARDS

Meets the requirements of the latest Standard for elastomeric joint sealants

ASTM C 920, Type S, Grade NS, Class 50, Use NT, M, A & O

EN 15651-1: F-EXT-INT-CC 25LM

EN 15651-2: G-CC 25LM

EN 15651-3: S XS2

TYPICAL PROPERTIES*

Cure mechanism	Neutral cure with atmospheric moisture
Density	1.01 g/ml
Skin formation time (23°C 55% RH)	10 mins
Rate of cure (23°C 50% RH)	2 mm/day
Application temperature	+5°C to 40°C
Application rate (3mm / 6 Bar pressure)	130 g/min
Movement Accommodation Factor	±50%
E-Modulus at 100%	0.35 N/mm ²
Shore A Hardness (DIN 53505)	15
Ultimate elongation at break	530%
Flow (slump) vertical ISO 7390	<2 mm
Shrinkage	<5%
Tensile strength	0.96 N/mm ²
Temperature in service	-50°C to +120°C

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APPLICATION GUIDELINES

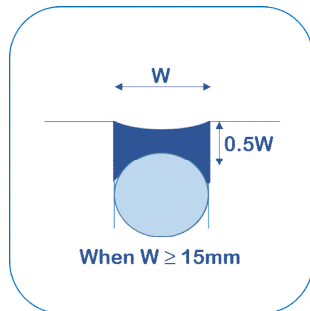
SURFACE PREPARATION

To ensure optimum adhesion the joint faces must be sound, clean, dry and free from any loosely adherent material which could prevent adequate bond to the substrate.

MasterSeal 123NS adheres perfectly without the use of a primer to most non porous substrates. Strongly porous substrates may need priming using **MasterSeal P 101**. It is good practice to test adhesion before commencing full installation. Protect surrounding surfaces with masking tape if they are to be painted.

Joint Dimensions:

Correct joint design is essential to ensure correct performance of the installed joint sealant. Minimum joint widths should be 6mm. Up to 12 mm width depth should equal the width. For all joints 12 mm to 15 mm wide it is recommended that the depth of the installed joint sealant should be at least 8 mm. For joints >15 mm the maximum depth should be half the width.



Joint depth is controlled by the use of closed cell backer rod. This also prevents 3-sided adhesion which would be highly detrimental to long term performance of the joint sealant

PLACING / APPLICATION

Fix cartridge into cartridge gun. Cut screw threaded nipple at end of cartridge. Attach application nozzle. Cut nozzle at 45° so that aperture is equal to width of joint. Gun sealant into joint in one smooth continuous operation ensuring sufficient material is delivered to fill joint. Using a spatula or tooling tool press sealant into joint and onto joint faces while leaving a smooth concave surface. Remove any masking tape used.

Application temperature ranges

Minimum +5°C
 Maximum +40°C

CLEANING

Clean uncured material using a solvent such as Xylene or toluene. Cured material can only be cleaned mechanically (Tip: WD 40 can assist to remove cured silicones).

COVERAGE / YIELD

Linear meter / 310 ml unit

Joint depth (mm)	Joint width (mm) approx.		
	6	12	20
6	8.6	4.3	2.6
8	-	3.2	1.9
10	-	-	1.5

Note: The above coverage rates do not include wastage

WATCHPOINTS

Not suitable for PE, PP, PC, PMMA, PTFE, Neoprene, and bituminous substrates

MasterSeal 123NS is NOT paintable.

Compatibility with glazing edge seals need to be checked individually.

STORAGE AND SHELF LIFE

MasterSeal 123NS has a shelf life of 12 months from production date when stored in its original packaging at temperatures between 5°C and 25°C.

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HEALTH AND SAFETY

May produce an allergic reaction.
Contains: 4,5-DICHLORO-2-OCTYL-2H-ISOTHIAZOL-3-ONE.

Avoid contact with the skin, eyes and clothing.

On skin contact:

Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth and then drink plenty of water. Do not induce vomiting unless told to by a poison control center or doctor.

No special measures necessary if stored and handled correctly. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned, and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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