

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.

RECOMMENDED USES

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.

FEATURES & BENEFITS

- **Plasticizer free** - Virtually non-staining on natural stones and other strongly absorbing substrates.
- **Primer less applications on most common substrates** - Fast & Easy application, Saves time and money.
- **Excellent UV, weather and waterresistance** – Suitable for external applications
- **Excellent elasticity and resilience** – Durable and long service life.
- **Range of colors** - Retains Natural stone aesthetics.

APPROVALS & CERTIFICATES

Meets the requirements of the latest European Standard for elastomeric joint sealants

EN 15651-1: F-EXT-INT-CC 25LM EN 15651-2: G-CC 25LM

EN 15651-3: S XS2

PERFORMANCE DATA

Shore A Hardness (DIN 53505)	15
Movement AccommodationFactor	± 25%
Tensile Strength (N/mm ²)	0.93
E-Modulus at 100% (N/mm ²)	
Skin formation time(mins)(23°C 55% RH)	10
Rate of cure (mm/day)(23°C 50% RH)	2
Application temperature (°C)	+5 to +40
Application rate (g/min)(3mm / 6 Bar pressure)	130
Ultimate elongation at break	530%
Flow (slump) vertical(mm)ISO 7390	<2
Shrinkage	<5%
Temperature in service(°C)	
Min	-50

PROPERTIES

Cure mechanism	Neutral cure with atmospheric moisture
Density	1.02g/ml
Application temperature	+5°C to 40°C

APPLICATION

Surface preparation:

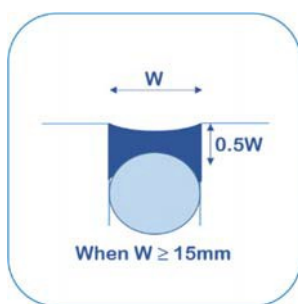
To ensure optimum adhesion the joint faces must be sound, clean, dry and free from any loosely adherent material which could prevent adequate bond to the substrate.

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.

MasterSeal® 123NS

Joint Dimensions:

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



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

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.

CONSUMPTION

Linear meter / 310ml 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.
- For application in swimming pools, refer to prescribed method statement.

PACKAGING

MasterSeal 123NS is supplied in boxes of 12 x 310ml cartridges.

COLOURS

MasterSeal 123NS is available in:

Clear, White (RAL 9010), Light Grey (RAL 7035), Traffic Grey (RAL 7042), Light Ivory (RAL 1015), Black, Mahogany Brown (RAL 8016) and Bronze (RAL 1036)

EQUIPMENT 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).

APPLICATION TEMPERATURE RANGE

Minimum : +5°C
Maximum: +40°C

STORAGE AND SHELF LIFE

MasterSeal 123NS has a shelf life of 18 months from production date when stored in its original packaging at temperatures between 5°C and 25°C.

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.

MasterSeal[®] 123NS

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).

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

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, ISO 14001 and OHSAS 18001.

*Properties listed are based on laboratory controlled tests.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.