

MasterSeal® 121

Anti-fungal, sanitary grade silicone sealant

DESCRIPTION

MasterSeal 121 is a versatile, acetoxy silicone sealant, which cures under influence of humidity to form a durable elastic rubber seal with good bond to the substrate. It is non-slump, with excellent resistance against UV and weather, which can be used in vertical and horizontal joints, in internal and external environments, to provide a long-term, durable, elastic rubber seal. Special formulation resists the growth of unsightly mould.

RECOMMENDED USES

MasterSeal 121 has been developed to form a durable elastic seal for vertical and horizontal joints in kitchen, bathrooms, tiling and sanitary ware application.

Specially developed acetoxy cure sanitary grade silicone sealant for top sealing in glazing systems, perimeter joints around timber, aluminum window and doorframes and joints in kitchens and bathrooms substrate without priming.

FEATURES & BENEFITS

- **Anti-fungal** – Keeps wet areas hygienic
- **UV resistant & No discoloration** – maintains aesthetics in exterior applications
- **Primer less application on most common substrates** - Saves time and money
- **Excellent UV, weather and water resistance** - Durable and Long service life
- **Range of colors** - To match most of the substrate common colour requirement

STANDARDS

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

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

EN 15651-2: G-CC

EN 15651-3: S (CLASS S1)

PROPERTIES

Cure mechanism	Acetoxy Cure
Density	0.96 g/ml
Application temperature	+5°C to 40°C

PERFORMANCE DATA

Skin formation time (mins) (23°C 55% RH)	13
Rate of cure(mm/day) (23°C 50% RH)	3
Application Rate (g/min) (3mm / 6 Bar pressure)	620
Movement Accommodation Factor(%)	±25
E-Modulus at 100% (N/mm ²)	0.30
Shore A Hardness (DIN 53505)	15
Ultimate elongation at break (%)	520
Flow (slump) vertical (ISO 7390)	<2mm
Shrinkage	<5%
Tensile strength (N/mm ²)	1.30
Temperature in service (°C)Min	- 40
Max	+120

APPLICATION

Surface Preparation:

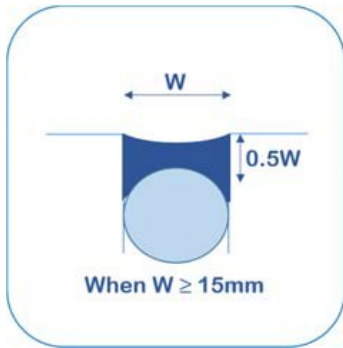
To ensure optimum adhesion the joint faces must be sound, clean, dry and free from any loosely adherent material which could prevent adequate bond to the substrate. **MasterSeal 121** adheres perfectly without the use of a primer to most non porous substrates. Strongly porous substrates may need priming 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. For swimming pool, refer to method statement for application details.

Joint Dimensions:

Correct joint design is essential to ensure correct performance of the installed joint sealant.

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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.



Corner beads should be a minimum 6mm x 6mm dimension.

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.

WATCHPOINTS

- Not suitable for PE, PP, PC, PMMA, PTFE, Neoprene, and bituminous substrates
- **MasterSeal 121** is NOT paintable.
- Compatibility with glazing edge seals need to be checked individually.
- Do not use on concrete or masonry

CONSUMPTION

Linear meter / 280ml unit

Joint depth (mm)	Joint width (mm) approx.		
	6	12	20
6	7.8	3.9	2.3
8	-	2.9	1.7
10	-	-	1.5

Note: The above coverage rates do not include wastage

PPACKING

MasterSeal 121 is supplied in boxes of 25 x 280ml cartridges.

COLOURS

MasterSeal 121 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 121 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. 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.

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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 solution 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 Solution 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

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