



Product description

MASTERS 180 is a one-component, neutral-curing, low modulus silicone sealant with outstanding adhesion and long shelf life for construction, perimeter sealing, glazing applications and sanitary areas.

Properties

MASTERS 180 cures at room temperature under the action of atmospheric moisture to give a permanently flexible silicone rubber.

Special features

- suitable for use in sanitary areas - mold resistant
- non-sag
- exempt from withdrawal
- solvent-free, thus featuring low volume shrinkage
- low modulus
- excellent UV resistance
- ready gunnability at low (+ 5°C) and high (+ 40°C) temperatures
- flexible at low (-40°C) and high temperatures (+180°C)
- excellent weatherability
- odorless
- rapid crosslinking: quickly becomes tack-free
- primerless adhesion to most materials
- excellent tooling characteristics for professional use
- non-corrosive to paints, aluminium and metals in general
- suitable for alkaline substrates such as concrete, mortar, fibrous cement
- compatible with water and solvent based coatings; no plasticizers migratio
- long shelf life

Application

- to seal doors and windows
- to seal joints between aluminium, glass and PVC
- to seal mirrors
- it is suitable for the construction and the installation of PVC doors and windows frames inside and outside
- to seal glass walls in building industry
- suitable for dilatation joints between different materials in building industry
- excellent adhesion on different plastic supports

Restrictions on use

MASTERS 180 must not be used as a secondary sealant in insulating glass units.

MASTERS 180 is not recommended for structural glazing bonding.

It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating materials (paints, varnishes and glazes) or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials, Mastici Vottero cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests.

MASTERS 180 is not suitable for use on natural stones, such as marble, granite, quartzite, as it can cause staining.

MASTERS 180 is not recommended for sealing of aquaria or for the longer-term use under water.

MASTERS 180 is not suitable for food contact applications.

When using MASTERS 180 in permanently wet areas where the joint is strongly or permanently exposed to water, e.g. in swimming pools or public sanitary facilities, please contact our technical service. MASTERS 180 is not suitable for use as a mirror adhesive.

The curing time can be extended at lower temperature, lower humidity or by low volume of air exchange.

Adhesion

MASTERS 180 exhibits excellent primerless adhesion to most substrates used in sanitary areas, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker; metals, e.g. aluminium, steel, zinc or copper; impregnated, varnished or painted wood; and many plastics.

Users must carry out their own tests due to the great variety of substances. The adhesion can be improved in many cases by pretreatment of the substrates with a primer.

If adhesion difficulties arise please contact our technical service.

Package

cartridge 280/300/310 ml, box 12/24 pc

unipac 400/600 ml, box 24 pc.

drums 20 kg

Colours



transparent
trasparente

white
bianco

RAL 9010

Processing

The substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material, dust, dirt, rust, oil, and other contaminants. Non-porous substrates should be cleaned with a solvent and a clean, lint-free, cotton cloth. Wipe dry immediately with another such cloth before the solvent evaporates from the surface.

Storage

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons. Stored in its original packaging, in a cold dry place (+5°C and +25°C), away from direct sunlight, the product lasts 14 months.

Safety notes

During vulcanization ethanol is released. These vapors should not be inhaled for long periods or in high concentration. Hence, good ventilation of the work place is necessary. Should unvulcanized RTV-1 silicone rubber come into contact with eyes or mucous membranes, the affected area must be rinsed thoroughly with water as irritation will otherwise be caused. Cured silicone rubber, however, can be handled without any risk to health.

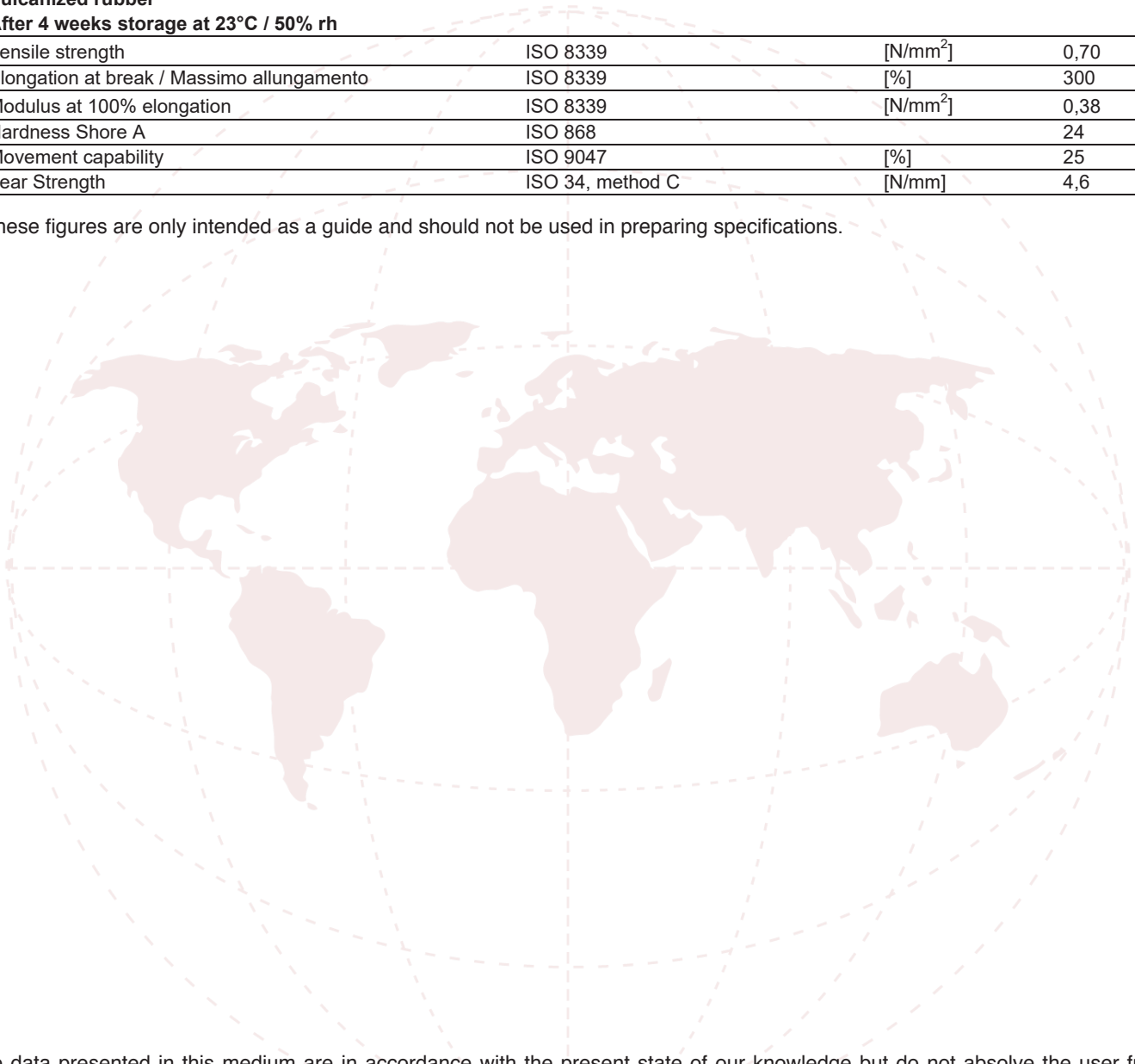
Keep away from children.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from MASTICI VOTTERO.

MASTERS 180 - Product data

General characteristics	Inspection method	unit	Value
Unvulcanized paste			
Density at 23°C	EN/ISO 1183	[g/cm ³]	1,02
Consistency	ISO 7390,		non-sag
Extrusion rate at 23°C		[g/min]	200
Skin forming time at 23°C / 50% rh		[min]	35
Vulcanized rubber			
After 4 weeks storage at 23°C / 50% rh			
Tensile strength	ISO 8339	[N/mm ²]	0,70
Elongation at break / Massimo allungamento	ISO 8339	[%]	300
Modulus at 100% elongation	ISO 8339	[N/mm ²]	0,38
Hardness Shore A	ISO 868		24
Movement capability	ISO 9047	[%]	25
Tear Strength	ISO 34, method C	[N/mm]	4,6

These figures are only intended as a guide and should not be used in preparing specifications.



The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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