Product description

One-component, acid-curing silicone sealant for general-purpose sealing in high temperature applications up to 260 °C.
MASTERS 900 cures at room temperature under the action of atmospheric moisture to give a permanently flexible silicone rubber.

Special features

- non-sag
- ready gunnability at low (+5°C) and high (+40°C) temperatures
- flexible at low (-40°C) and high temperatures (+260°C)
- adheres excellently to glass, vitrified surfaces, ceramic tiles, many plastics and most paints
- good tooling properties
- maintains elastic properties at continuous temperatures of up to 260°C
- resistance at peaks of +300°C
- short-term resistance up to 275°C

Application

- to stick and seal ovens, fireplaces, boilers and chimney flues
- to seal pumps' parts, heating systems and household appliances exposed to high temperatures
- car, industrial and sea engine gaskets
- to seal mechanical parts exposed to high temperatures

Restrictions on use

MASTERS 900 should not be used on substrates such as marble, concrete, fibrous cement and mortar, as the product releases acetic acid during vulcanization.
MASTERS 900 should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.
MASTERS 900 may be discolored in contact with some organic elastomers, e.g. EPDM, APTK and neoprene.
MASTERS 900 is not recommended for sealing of aquaria.
MASTERS 900 is not recommended for use on natural stone, such as marble, granite, quartzite, as it can cause staining.
MASTERS 900 is not recommended for structural glazing bonding.
MASTERS 900 is not suitable for continuous contact with motor oils and fuels.

Adhesion

MASTERS 900 exhibits excellent primerless adhesion to most non-porous siliceous material, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker; impregnated, varnished or painted wood; and some 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
tube 60 ml, box 24 pc
drums 21/210 kg

Colours

red
rosso
RAL 3001

black
nero
RAL 9005

Processing

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

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 24 months

Heat resistance

MASTERS 900 is heat stabilized and remains unaffected by long term exposure to extreme temperatures up to 260°C.
It can also be used for shorter periods (some weeks) at temperatures up to 275°C. Figure 2 (page 2) shows the

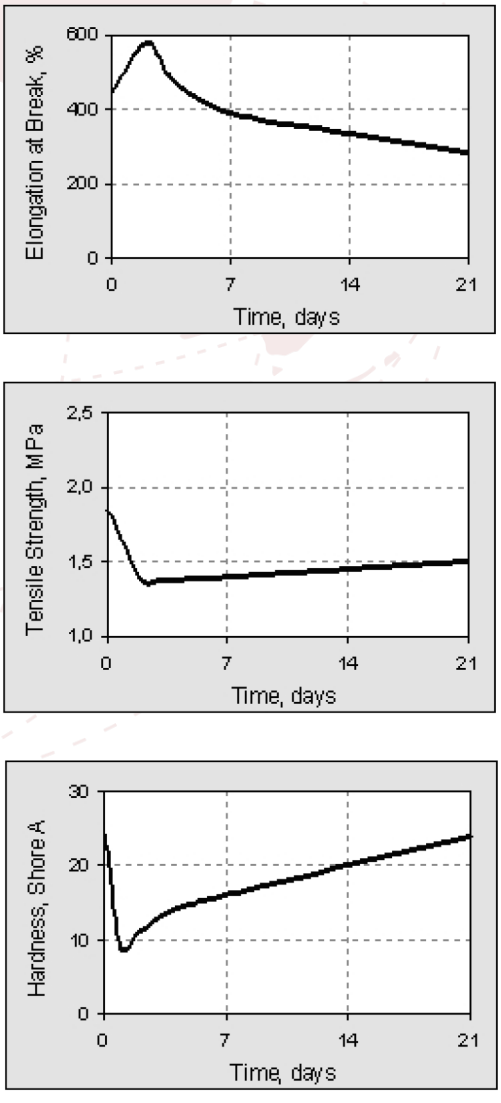

Figure 2

effect of heat aging at 275°C on the elongation at break, tensile strength and hardness of the silicone rubber.
Fig. 2 - Heat resistance of MASTERS 900
(Heat aging at 275°C, testet at 23°C)

Safety notes

During vulcanization acetic acid 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 uncured 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.
Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from MASTICI VOTTERO subsidiaries.

MASTERS 900 - Product data

General characteristics	Inspection method	unit	Value
Uncured paste			
Density at 23°C	ISO 1183-1 A	[g/cm^3]	1,03
Density at 25°C (+/- 0,02 g/cm^3)	ISO 1183-1 A	[g/cm^3]	1,03
Consistency	ISO 7390, profile U 20		non-sag
Extrusion rate - volume flow at 23°C		[ml/min]	250
Skin forming time at 23°C / 50% rh		[min]	20
Cured paste **After 4 weeks storage at 23°C / 50% rh**			
Tensile strength	ISO 8339	[N/mm^2]	0,70
Elongation at break	ISO 8339	[%]	250
Modulus at 100% elongation	ISO 8339	[N/mm^2]	0,45
Hardness Shore A	ISO 868		25
Tear Strength	ISO 34, method C	[N/mm]	4,2
Temperature resistance		[°C]	-40 / +260

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

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

For technical, quality, or product safety questions, please contact:
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