



New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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MAPESIL 300°C

Silicone sealant for high temperatures



WHERE TO USE

Mapesil 300°C is a flexible, acetic-reticulation silicone sealant characterised by its resistance to high temperatures. Suitable for flexible seals which resist continuous temperatures up to +300°C. Specifically developed to seal flues, boilers, industrial and domestic ovens, pipe-work and conduits subjected to high temperatures when in service.

Some application examples

Flexible seals for joints and fillets on components subjected to high temperatures when in service, such as:

- flues;
- ovens;
- chimneys;
- radiators;
- barbeques;
- high temperature pipe-work;
- heat exchangers and boilers.

Mapesil 300°C bonds to all non-absorbent, non-oxidising substrates after cleaning and de-greasing the contact surface. Apply a coat of **Primer FD** beforehand on absorbent alkaline surfaces.

TECHNICAL CHARACTERISTICS

Mapesil 300°C is a soft paste which reacts with atmospheric humidity and gives off acetic acid to form a flexible, adhesive rubber material.

Application and polymerisation of **Mapesil 300°C** must take place at the surrounding temperature until the section of sealant completely hardens. Only when hardened may it come into contact with high temperatures.

Mapesil 300°C is a flexible sealant which contains special fillers resistant to high temperatures, although it is not suitable for contact with direct flames.

RECOMMENDATIONS

- Do not apply on dusty or crumbly surfaces.
- Do not apply on damp surfaces or on surfaces with stagnant water.
- Do not apply on hot surfaces at more than +35°C.
- Do not use in direct contact with flames.
- Wear protective gloves and goggles when handling the product.
- May not be painted over.
- Remove traces of excess sealant immediately after smoothing it over.

APPLICATION PROCEDURE

Preparation of surfaces to be sealed

Surfaces to be bonded or sealed must be dry, de-greased, solid and free of dust, loose parts, oil, grease, wax, old paintwork and rust on metal surfaces.

To avoid the sealant seeping out of the joint and to get a more attractive finish, we recommend applying masking tape along the edges of the joint.

Preparation and application of Mapesil 300°C

Insert the cartridge in an extrusion gun, cut off the tip of the cartridge, screw on the extrusion nozzle, trim the nozzle at an angle of 45° and according to the extruded width required and squeeze out the product in a continuous flow into the joint while trying to avoid air entering the joint.

Immediately after applying the sealant, smooth over the surface before it hardens with a spatula wetted with soap and water.

Remove the masking tape immediately after smoothing over the sealant.

CONSUMPTION

One cartridge of **Mapesil 300°C** will form 3 metres of 10 x 10 mm section.

CLEANING

Clean all tools immediately after use with a clean, dry rag.

Once hardened, the product may only be removed mechanically.

PACKAGING

Boxes of 12 x 300 ml cartridges.

COLOURS AVAILABLE

Mapesil 300°C is available in black.

STORAGE

18 months if stored at a temperature of between +5°C and +25°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapesil 300°C is not considered hazardous according to current standards and regulations regarding the classification of mixtures.

While handling the product, we recommend the use of protective gloves and goggles and to keep the work area well ventilated.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Appearance:	thixotropic paste
Composition:	acetic silicone
Colour:	black
Density (gr/ml):	1.4
Storage:	18 months in its original sealed packaging
Hazard classification according to EC 1999/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
APPLICATION DATA (at +23°C and 50% R.H.)	
Application temperature range:	from +5°C to +35°C
In-service temperature range:	from -30°C to +300°C

Time for formation of skin:	6 minutes
Speed of polymerisation:	4 mm/24 h
FINAL PERFORMANCE	
Elongation at failure (%):	500
Tensile strength (N/mm ²):	2.2
Tear strength:	5 kN/m
Shore A hardness:	20
Modulus of elasticity at 100% elongation (N/mm ²):	0.6
Resistance to water:	very good
Resistance to atmospheric agents:	excellent

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

429-11-2011-gb

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