Novasil®
M 375

Technical Datasheet

Characteristics:

- 1-component adhesive based on hybrid polymer STP
- Also on damp substrates
- Broad adhesion spectrum
- Strong starting bonding
- High final strength
- Elastic
- Good plastic bonding
- Fast thorough hardening
- Silicone-free
- Free of isocyanates
- Compatible with coatings according to DIN 52452
- Can be painted and varnished – please observe application instruction in TDS

Fields of application:

Lighting and electronics industry:

- Elastic bonding and sealing of lamp casings

Heating, ventilation and plant construction:

- Sealing of connecting and expansion joints for air-conditioning and ventilation technology purposes

General Industry:

- Elastic bonding of same and different materials such as stainless steel, aluminium and some types of plastic
- Elastic bonding for bodywork and vehicle construction purposes, wagon and container construction, metalwork and apparatus construction

Important information:

Before applying this product the user has to ensure that the materials in the area of contact (solid, liquid and gaseous) are compatible with it and also amongst each other and do not damage or alter (e. g. discolour) each other. As for the materials that will be used at a later stage in the surrounding area of the product the user has to clarify beforehand that the substances of content or evaporations do not lead to an impairment or alteration (e. g. discolouration) of the product. In case of doubt the user should consult the respective manufacturer of the material.
Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant.
For UV-loaded bonds/seals of glass, we recommend the use of a high-quality silicone adhesive/sealant.
Not suitable for sealing / bonding copper upon impact of UV-radiation and temperature.
For UV-loaded bonds/seals of transparent plastics such as acrylic glass we recommend the use of a high-quality silicone adhesive/sealant.
The colours of the sealant may be affected by environmental influences (high temperature, chemicals, vapours, UV-radiation). This does not affect the characteristics of the product.

Technical properties:

Skin-forming time at 23 °C/50 % RH [minutes]	~ 10 - 15
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 3
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,5

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Shore-A-hardness according to ISO 868	~ 60
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 1,5
Tensile expansion according to ISO 37, S3A [%]	~ 280
Tensile strength according to ISO 37, S3A [N/mm²]	~ 2,7
Temperature resistance from/to [°C]	- 40 / + 100 (1)
Shelf life at 23 °C/50 % RH for cartridge [months]	12 (2)

1) temporarily (90 minutes) up to + 150 °C
2) from date of manufacture

These data are not suitable for the issue of specifications. Please contact OTTO-CHEMIE before issuing specifications.

Pretreatment:

The adherent surfaces have to be clean, free from dust and grease as well as sustainable.
All adherent surfaces must be clean and any contaminant such as release agents, preserving agents, grease, oil, dust, water, old adhesives or sealants and other substances which could affect adhesion, should be removed.
The demands on elastic sealings and bondings depend on the respective exterior influences. Extreme fluctuations in temperature, tensile or shear forces, repeated contact with water etc. demand high requirements of a bonding. In such cases it is advisable to apply primer in order to achieve a resilient bonding. Please consult our technical department.

Application information:

In order to achieve optimal adhesion and good mechanical characteristics, the entrapment of air in the joint must be avoided.
Curing time can be reduced by humidification and increased temperatures.
For the full-surface bonding of steam-tight substrates the adhesive should be moistened.
Our product can be overcoated with paint or varnish. The compatibility between the coating and our product has to be checked before the application by the user/processor - possibly under production conditions. Our OTTO application technology will gladly support you non-committally. If, in exceptional cases, after succesful compatibility test our product is coated over the entire surface, this coating must also be able to follow the elastic movement of the sealant. Otherwise crack formations in the coat of paint or optical impairments may occur.
Due to the many possible influences during and after application, the customer always has to carry out trials first.
STORAGE:
Please observe the recommended shelf life which is printed on the packaging.
We recommend to store our products in unopened original packagings dry (< 60 % RH) at temperatures of +15 °C up to +25 °C. If the products are stored and / or transported at higher temperatures / air humidity for longer periods (some weeks), a diminuition of durability or a change of material characteristics may arise.
If stored for a longer period at higher temperatures (≥ 30 °C) a diminishment of the initial adhesion may occur.

Packaging:

	310 ml cartridge
black	M375-04-C04
Packaging unit	**20**
Pieces per pallet	**1200**

Further delivery forms available on request

Safety precautions:

Please observe the material safety data sheet.

Disposal:

Information about disposal: Please refer to the material safety data sheet.

Warranty information:

All information in this publication is based on our current technical knowledge and experience. However, since conditions and methods of use and application of our products are beyond our control, we suggest that you test the product before final use. Information given in this technical data sheet and explanations of OTTO-CHEMIE in connection with this technical data sheet (e.g. service description, reference to DIN

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regulations etc.) is not to be seen as a warranty. Warranties require a separate written declaration of OTTO-CHEMIE to prove their validity. The characteristics stated in this data sheet define the characteristics of the article broadly and concludingly. Suggestions of use are not to be taken as confirmation of the appropriateness for the recommended intended use. We reserve the right to alter the product, adjusting it according to technical progress and new developments. We are at your disposal both for inquiries as well as specific application problems. If a governmental approval or clearance is necessary for the application of our products, the user is responsible for the obtainment of such. Our recommendations do not excuse the user from the obligation to take into consideration the possibility of infringement of third parties' rights and - if necessary - resolving it. For the rest our general terms and conditions apply, in particular regarding a possible liability for defects. You can find our general terms and conditions on our homepage: http://www.otto-chemie.de/en/terms-and-conditions

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