

Novasil®

M 376

Technical Datasheet

Characteristics:

- 1-component adhesive and sealant based on STP hybrid polymer
- Temperature resistant up to + 120°C
- Can be powder-coated following complete hardening (30 min / + 200°C)
- Fast thorough hardening
- Broad adhesion spectrum
- Stress-compensating
- Silicone-free
- Free of isocyanates

Fields of application:

Heating, ventilation and plant construction:

- Sealing of connecting and expansion joints for air-conditioning and ventilation technology purposes
- Sealing of connecting and expansion joints for the purposes of the construction of containers, metals and apparatuses

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.

For UV-loaded bonds/seals of transparent plastics such as acrylic 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.

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]	~ 25 - 40
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty
Density at 23 °C according to ISO 1183-1 [g/cm ³]	~ 1,4
Tensile strength according to ISO 37, S3A [N/mm ²]	~ 4,0
Tensile expansion according to ISO 37, S3A [%]	~ 400
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm ²]	~ 2,0
Shore-A-hardness according to ISO 868	~ 60
Thorough hardening after 24 hours [mm]	~ 2,5 - 3,0 (1)
Temperature resistance from/to [°C]	- 40 / + 120 (1)

Temperature resistant at +150°C for [hours]	~ 24 (1)
Temperature resistant at +180°C for [minutes]	~ 90 (1)
Temperature resistant at +200°C for [minutes]	~ 30 - 45 (1)
Shelf life at 23 °C/50 % RH for pail/drum [months]	6
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12

1) Before being subject to high temperatures, the adhesive/sealant must be fully vulcanised. The length of time this thorough hardening takes depends on the thickness of the layer and the ambient conditions.

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 fat, dry and 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:

Fix the substrates, which are to be bonded, until the adhesive is completely cured.
 Curing time can be reduced by humidification and increased temperatures.
 For the full-surface bonding of moisture-impermeable material and for the acceleration of the curing process illumination is necessary.
 Due to the many possible influences during and after application, the customer always has to carry out trials first.
 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 diminution of durability or a change of material characteristics may arise.

Packaging:

	310 ml cartridge
black	M376-04-C04
Packaging unit	20
Pieces per pallet	1200

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 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 conclusively. 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>

