

**OTTOSEAL®****M 350**

Technical Datasheet

**1-component hybrid polymer STP sealant**

For indoor and outdoor application

## Characteristic:

- **Non-corrosive**  
No (oxidation) corrosion on unprotected metal surfaces
- **Silicone-free**
- **Can be painted and varnished – please observe application instruction in Technical Data Sheet**  
Optical adaptation and protective coating possible
- **Good weathering and ageing resistance**  
For long-lasting indoor and outdoor applications

## Fields of application:

- Window pane sealing on wooden windows
- Sealing of joints on windows and doors made of wood, metal and plastic
- Sealing of pipe and antenna ducts
- Sealing double-glazings (e. g. "Profilit")
- Sealing of joints on façades, metal constructions
- Sealing of air condition and ventilation systems
- Suitable for glazing systems with putty fronting Va1 in accordance with DIN 18545 / ÖNORM 3724

## Standards and tests:

- Tested according to EN 15651 – Part 1: F EXT-INT CC 25
- Tested according to EN 15651 – Part 2: G CC 25 HM
- According to the requirements of DIN 18545, stress group A and D
- According to the requirements of ISO 11600 G 25 HM
- Suitable for use in room ventilation systems according to VDI 6022 (Ass. Of Germ. Engineers), sheet 1 tested according to DIN EN ISO 846 (by the Institute for Hygiene Berlin, Germany)
- Suitable for applications according to IVD instruction sheet no. 9+12+20+24+27+29+31+32+35 (IVD = German industry association sealants)
- French VOC-emission class A+
- Declaration in "baubook" Austria

## 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.

Not suitable for sealing / bonding copper upon impact of UV-radiation and temperature.

Application of solvent-based alkyd resins can result in an increased curing time.

Good resistance to water, fat, lubricant oils as well as to diluted anorganic acids and alkaline solutions.

Temporary resistance to ester, ketone, aromatics and aliphatic solvents is given.

Not resistant to concentrated acids and alkaline solutions nor to halogenated hydrocarbons.

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]	~ 20 - 30
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2,5
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,4
Shore-A-hardness according to ISO 868	~ 21
Permissible movement capability [%]	25
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 0,35
Tensile expansion according to ISO 37, S3A [%]	~ 300
Tensile strength according to ISO 37, S3A [N/mm²]	~ 1,4
Temperature resistance from/to [°C]	- 40 / +90
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12

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

**Pretreatment:**

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. Cleaning of non-porous substrates: Apply OTTO Cleaner T (airing time approx. 1 minute) using a clean, lint-free cotton cloth. Cleaning porous substrates: Clean surfaces with steel-wire brush e. g. or a grinding disk to remove loose particles.

**Primer Table:**

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 according to the recommendations of our technical department (e. g. +/OTTO Primer 1216) in order to achieve a resilient bonding.

Acrylic glass/PMMA (Plexiglas®, etc.)	+ / 1217
Acrylic bathroom surfaces (e. g. bath tubs)	-
Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	T
Concrete	1218
Concrete block	-
Lead	T
Chrome	T
Stainless steel	+
Iron	T
Epoxid resin coating	T
Fibre cement	1215
Glass	+
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	T
Wood, varnished (solvent systems)	+
Wood, varnished (aqueous systems)	+
Wood, untreated	+
Ceramic, glazed	+
Ceramics, unglazed	+ / 1215 / 1216
Artificial stone	-
Plastic profiles (unplasticized, e. g. Vinnolit)	+ / 1217 / 1227
Copper	+ (1)
Melamine formaldehyde resins (e. g. Resopal®)	+
Brass	+
Natural stone / marble	-
Polyester	T
Polypropylene	-
Cellular concrete	T

Plaster	1218
PVC unplasticized	+ / 1217 / 1227
PVC-soft-foils	-
Tinplate	T
Zinc, galvanised iron	+

1) Not suitable for the sealing of covering plates made of copper.

+ = good adherence without primer

- = not suitable

T = Test/pilot test advised

#### Application information:

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 successful 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.

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:

	300 ml cartridge
concrete grey	M350-03-C56
white	M350-03-C01
<b>Packaging unit</b>	<b>12</b>
<b>Pieces per pallet</b>	<b>1152</b>

No special colours possible.

Other units on request

#### Safety precautions:

Please observe the material safety data sheet.

After curing the product is completely odourless.

#### 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 obtaining 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>