

OTTOSEAL® M 360

The hybrid sealant for building joints



1-component hybrid polymer STP sealant

For indoor and outdoor application

M 360



Characteristics

- › Good weathering and ageing resistance
- › Can be painted and varnished – please observe application instruction in Technical Data Sheet
- › Low odour - No odour nuisance
- › Silicone-free
- › Free of isocyanates
- › Tack-free surface after approx. 6 hours - Less risk of contamination
- › Temperature resistance from -40 to +90°C

Fields of application

- › Sealing of building construction joints according to DIN 18540-F
- › Sealing of joints on façades, metal constructions
- › Sealing of expansion and connections joints on prefabricated concrete and cellular concrete units
- › Bonding of OTTO Window Tapes BAB-V and BAB-VD on masonry, concrete, cellular concrete etc.
- › For RAL assembly INDOOR and OUTDOOR
- › For the permanent airtight indoor sealing and for driving-rain-resistant outdoor sealing. Suitable for joints between windows and construction elements
- › Connection to a structure, e.g. connection to a window frame, doors, gates and drywall to the structure such as wall opening as well as transition areas e.g. from a concrete wall to a wooden stud wall/glass partition and tiled stoves partition.
- › Closure of cracks and holes in façades and interior walls, such as in scaffolding/paintwork

Standards and tests

- › Tested according to EN 15651 – Part 1: F EXT-INT CC 25 LM / ISO 11600-F-25 LM
- › Tested fire behaviour in accordance with EN 13501: class E
- › Component test “Airtightness and driving rain resistance of a sealant system between window and structural part according to ift guideline MO-01”
- › Accumulation water - Testing according to the guideline "Building waterproofing - Connection to floor-deep windows and doors, Part 2" together with Remmers waterproofing system "Liquid waterproofing with fleece carrier"
- › EMICODE® EC 1 Plus - very low emission
- › French VOC-emission class A+
- › Declaration in "baubook" Austria
- › According to regulation (EG) no. 1907/2006 (REACH)
- › Suitable for applications according to IVD instruction sheet no. 7+9+12+19-1+20+22+24+27+29+31+32+35 (IVD = German



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SEALING & BONDING

industry association sealants)

Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 20 - 30
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2 - 3
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm ³]	~ 1,5
Shore-A-hardness according to ISO 868	~ 25
Permissible movement capability [%]	25
Stress expansion modulus at 100% according to ISO 8339 [N/mm ²], method B	~ 0,4
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm ²]	~ 0,6
Tensile expansion according to ISO 37, type 3 [%]	~ 700
Tensile strength according to ISO 37, type 3 [N/mm ²]	~ 1,7
Temperature resistance from/to [°C]	- 40 / + 90
Shrinkage of volume according to ISO 10563 [%]	~ 5
Water vapour diffusion resistance μ (ISO 7783)	~ 800
Water vapour diffusion equivalent air layer SD (ISO 7783, thickness of the sealant 10 mm) [m]	~ 8
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12 ¹

1) from production

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.

The adhesive surfaces must be cleaned and any contamination such as release agents, preservatives, grease, oil, dust, water, old adhesives/sealants and other substances impairing adhesion must be removed. Cleaning of non-porous substrates: Clean with OTTO Cleaner T (no flash-off time required) and a clean, lint-free cloth. Cleaning porous substrates: Clean surfaces mechanically, e.g. with a steel brush or a grinding disc, 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	-
Acrylic bathroom surfaces (e. g. bath tubs)	-
Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	T
Concrete	1225
Concrete block	-
Lead	T
Stainless steel	+ / 1216
Iron	T
Epoxid resin coating	+ / 1216
Glass	+
Wood, painted (solvent systems)	+ / 1226
Wood, painted (aqueous systems)	T / 1227
Wood, varnished (solvent systems)	+ / 1227
Wood, varnished (aqueous systems)	+ / 1227
Wood, untreated	T
Ceramic, glazed	+

Ceramics, unglazed	+ / 1216
Plastic profiles (unplasticized, e. g. Vinnolit)	1227
Copper	+ / 1227 ¹
Melamine resin panels	T
Brass	+ / 1227
Natural stone / marble	-
Polyester	T
Polypropylene	-
Cellular concrete	T
Plaster	1225
PVC unplasticized	+ / 1227 / 1225
PVC-soft-foils	-
Tinplate	T
Zinc, galvanised iron	+

1) See "Important information"

+ = good adherence without primer

- = not suitable

T = Test/pilot test advised

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 window pane sealing, floor joints, constantly wet areas and joints exposed to chemicals and all areas beyond our recommendations.

Avoid contact with materials which contain bitumen and which release solvents, e. g. butyl, EPDM, neoprene, insulating- and bituminous paint.

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.

In indoor areas with little to no UV light, hybrid polymer sealants may discolour over time, especially in light colours. Moreover, aldehydes and similar substances as well as their vapours from cleaning agents and disinfectants, wood materials and other building materials as well as heavy exposure to tobacco smoke can lead to discolourations of sealants.

For bonding or sealing of glass which is exposed to UV-radiation we recommend the use of our high quality silicone adhesives / sealants such as OTTOSEAL® S 110 / S 120 (for sealing of glazing rebate), OTTOSEAL® S 10 (e.g. for bonding), OTTOSEAL® S 7 (for weathersealing) or OTTOCOLL® S 81 (for bonded windows).

For bonding or sealing of transparent plastic material, such as acrylic glass, exposed to UV-radiation we recommend our silicone sealant OTTOSEAL® S 72.

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.

Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant. Materials with alkaline contents may cause interactions in the form of discolouration.

Pure mineral paints (e.g. based on potassium silicate or lime) are not suitable for painting over the entire surface due to the brittleness of the paint.

Depending on the climatic conditions and the type of painting, the coating materials can be reworked from about 1 hour.

In contact with oxidatively curing paints (e.g. alkyd resin paints) drying and curing can be delayed or prevented.

We recommend preliminary tests.

Coatings and their evaporation can lead to discolouration of the adhesive/sealant.

Discolouration of coatings due to interaction with the adhesive/sealant is not excluded.

Experience has shown that interactions and discolourations can be prevented with an insulating primer (e.g. Jaeger Kronen insulating primer). We recommend preliminary tests.

To smooth, apply OTTO smoothing agent spray to the sealant surface as economically as possible and in a targeted manner and only slightly wet the smoothing tools with the OTTO smoothing agent spray. Remove excess immediately.


















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

Glossy colors

	310 ml cartridge	580 ml aluminium foil bag
 brickred	M360-04-C3178	M360-08-C3178
 basalt	M360-04-C2260	M360-08-C2260
 concrete grey	M360-04-C56	M360-08-C56
 dark concrete grey	M360-04-C3172	M360-08-C3172
 dark brown	M360-04-C49	M360-08-C49
 grey aluminium	M360-04-C5078	M360-08-C5078
 light greybeige	M360-04-C537	M360-08-C537
 manhattan	M360-04-C43	M360-08-C43
 middle grey	M360-04-C3182	M360-08-C3182
 mortar grey	M360-04-C102	M360-08-C102
 RAL 7016	M360-04-C7016	M360-08-C7016
 RAL 7039	M360-04-C7039	M360-08-C7039
 RAL 9001	M360-04-C9001	M360-08-C9001
 RAL 9016	M360-04-C9016	M360-08-C9016
 sandbeige	M360-04-C3180	M360-08-C3180
 black	M360-04-C04	M360-08-C04
 white	M360-04-C01	M360-08-C01
Pieces per packaging unit	20	20
Pieces per pallet	1200	880

Due to typographical reasons the colours shown below may differ from the original colours of the products.

Safety precautions

Please observe the material safety data sheet.
After curing, the product is odourless.

Disposal

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

Warranty information

The above information and our technical application advice, whether verbal, in writing or by means of tests, are provided to the best of our knowledge, but are non-binding, including with regard to any third-party property rights. The information in this publication does not exempt the processor from carrying out their own tests on our products with regard to their suitability for the intended processes and purposes. The application, use and processing of our products and the products manufactured on the basis of our technical application advice are beyond our control and are therefore the sole responsibility of the processor. If the application for which our products are used is subject to an official authorisation requirement, the user is responsible for obtaining these authorisations. We reserve the right to adapt the product to technical progress and new developments. For the rest, we refer to our General Terms and Conditions, in particular with regard to any liability for defects. You can find our GTC at www.otto-chemie.de.