

**OTTOSEAL®****P 305**

Technical Datasheet

**1-component sealant based on polyurethane**

For indoor and outdoor application

## Characteristic:

- **Silicone-free**
- **Good compatibility with paints according to DIN 52452 (not paintable)**  
No interaction with existing and adjacent coatings
- **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
- **Cures without bubble formation**  
Suitable for optically demanding joints
- **Stress expansion modulus at 100 % (ISO 37, S3A): 0,3 N/mm<sup>2</sup>**

## Fields of application:

- External joints according to DIN 18540-F
- Expansion joints on prefabricated concrete and cellular concrete units
- Sealing of façades, metal constructions, window and door connections, flat roof parapets

## Standards and tests:

- Tested according to EN 15651 – Part 1: F EXT-INT CC 25 LM
- Tested and monitored according to DIN 18540-F (Süddeutsches Kunststoff-Zentrum, Würzburg, Germany)
- Suitable for applications according to IVD instruction sheet no. 7+9+12+20+22+24+27+29+31+32+35 (IVD = Germanindustry association sealants)
- Quality seal of the IVD (Industrial association for sealants, registered society), tested by the ift Rosenheim (Institute of window engineering, registered society)
- According to regulation (EG) Nr. 1907/2006 (REACH)
- French VOC-emission class A+
- EMICODE® EC 1 Plus R - very low emission
- Tested fire behaviour in accordance with EN 13501: class E

## 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.

Ensure good ventilation during application and curing.

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

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.

Not suitable for window pane sealing, floor joints, bathroom and constantly wet areas and joints exposed to chemicals and all areas beyond our recommendations.

For elastic sealing of marble and natural stone we recommend OTTOSEAL® S 70.  
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Technical properties:

Skin-forming time at 23 °C/50 % RH [minutes]	~ 60 - 90
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,3
Shore-A-hardness according to ISO 868	~ 20
Permissible movement capability [%]	25
Class according to ISO 11600	25LM
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 0,3
Tensile expansion according to ISO 37, S3A [%]	~ 800
Retroactivity according to ISO 7389 [%]	> 75
Temperature resistance from/to [°C]	- 40 / + 70
Extrusion rate according to ISO 8394-1 [g/min.]	~ 300 - 370
Shrinkage of volume according to ISO 10563 [%]	< 10
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:

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. 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.)	-
Acrylic bathroom surfaces (e. g. bath tubs)	-
Aluminium	1225
Aluminium anodized	1225
Aluminium powder-coated	T / 1226
Aluminium powder-coated (contains teflon)	T
Concrete	1225
Concrete block	-
Lead	T
Stainless steel	1225
Iron	1225
Epoxid resin coating	1226
Epoxid resin mortar	T / 1226
Fibre cement	1225
Gypsum	T
Glass	-
Wood, painted (solvent systems)	1226
Wood, painted (aqueous systems)	1226
Wood, varnished (solvent systems)	1226
Wood, varnished (aqueous systems)	1226
Wood, untreated	+ / 1225
Ceramic, glazed	1226
Ceramics, unglazed	1225
Clinker	1225
Plastic profiles (unplasticized, e. g. Vinnolit)	1227
Copper	1225

Melamine formaldehyde resins (e. g. Resopal®)	T
Brass	T
Natural stone / marble	-
Polyester	1226
Polypropylene	-
Cellular concrete	1225
Plaster	1225
PVC unplasticized	1227
PVC-soft-foils	T
Tinplate	1225
Brick-work	1225
Zinc, galvanised iron	1225

+ = 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:

	600 ml Alum. Foil bag
black	P305-19-C04
concrete grey	P305-19-C56
light-grey	P305-19-C38
middle-grey	P305-19-C78
mortar grey	P305-19-C102
white	P305-19-C01
<b>Packaging unit</b>	<b>20</b>
<b>Pieces per pallet</b>	<b>880</b>

No special colours possible.

#### 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 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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