



1-component sealant based on polyurethane For indoor and outdoor application P 305



Characteristics

- ▶ Silicone-free
- ▶ Compatible with coatings according to DIN 52452 - No interaction with existing and adjacent coatings
- ▶ Can be painted and varnished – please observe application instruction in Technical Data Sheet
- ▶ Good weathering and ageing resistance
- ▶ Cures without bubble formation

Fields of application

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

Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 80
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]	~ 1,3
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, type 3 [N/mm²]	~ 0,3
Tensile expansion according to ISO 37, type 3 [%]	~ 800

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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 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	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 resin panels	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

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.

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

Glossy colors

	600 ml aluminium foil bag
 concrete grey	P305-19-C56
 light grey	P305-19-C38
 middle grey	P305-19-C78
 mortar grey	P305-19-C102
 black	P305-19-C04
 white	P305-19-C01
Pieces per packaging unit	20
Pieces per pallet	880

No special colours possible.

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.

Brand information

EMICODE® is a registered trademark of GEV e. V. (Düsseldorf, Germany)

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.