

OTTOSEAL®**A 205****Technical Datasheet****1-component sealant based on acrylate**

For indoor and outdoor application

Characteristic:

- **Permissible movement capability according to ISO 9046 (manufacturer's test) 18 %**
Suitable also for large joint movements
- **Low odour**
Convenient processing
- **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**
Optical adaptation and elastic protective coating possible
- **Good UV-resistance**
Long durability in exposed areas
- **Frost-resistant -10° C/ up to 48 hours**
Can be stored and transported in temperatures as low as -10 °C for up to 48 hours
- **Stress expansion modulus at 100 % (ISO 37, S3A): 0,3 N/mm²**

Fields of application:

- Primarily suitable for interior fittings but can also be used for exterior use if temperature is above +5 ° C.
- Movement joints with little stress, e. g. between wooden window / door frames and masonry, plaster or concrete
- Joints in concrete, cellular concrete, plaster, masonry, wood, gypsum plasterboard, fibre cement, roller blind housings, window sills etc.

Standards and tests:

- Tested according to EN 15651 – Part 1: F EXT-INT 12.5 P
- Suitable for applications according to IVD instruction sheet no. 12+16+20+29+31+32+35 (IVD = German industry 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) no. 1907/2006 (REACH)
- French VOC-emission class A+
- Declaration in "baubook" Austria
- EMICODE® EC 1 Plus - very low emission
- Classification according to building certification systems, see the sustainability data sheet
- Tested fire behaviour in accordance with EN 13501: class E

Important information:

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

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.

At a normal temperature (23 °C/50 % RH), the sealant forms a firm surface skin after about 20 minutes. Until then, rain or other water must be kept away from the fresh sealant at all costs. Lower temperatures and/or a high humidity can considerably reduce the drying speed of the sealant.

Do not apply at temperatures below +5 °C.

Curing / drying leads to a colour change of the sealant. The final colour is attained after complete curing. Compatibility with water-based paints is given in the majority of cases. Due to the variety of available paint systems, we recommend either to test the compatibility of sealant and paint or to contact our technical department.

When painting the sealant in joints with little movement, a drying time of at least one week has to be observed.

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

Technical properties:

Skin-forming time at 23 °C/50 % RH [minutes]	~ 4 - 10
Processing temperature from/to [°C]	+ 5 / + 35
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm ³]	~ 1,7
Shore-A-hardness according to ISO 868	~ 10
Permissible movement capability [%] according to ISO 9046	18
Permissible movement capability [%] according to EN 15651 Part 1	12,5
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm ²]	~ 0,3
Tensile expansion according to ISO 37, S3A [%]	~ 450
Tensile strength according to ISO 37, S3A [N/mm ²]	~ 0,35
Temperature resistance from/to [°C]	- 20 / + 80
Joint width [mm]	25
Extrusion rate according to ISO 8394-1 [g/min.]	~ 300 - 370
Shrinkage of volume according to ISO 10563 [%]	~ 20
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12 (1) (2)

1) Frost-free storage

2) Temporary storage at - 10 °C possible, but not longer than 48 hours

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 dust and grease as well as 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.

Absorptive, mineral substrates should be moistened with water to improve adhesion.

Additionally the following are available to improve adhesion: on absorbent substrates - compound of acrylic sealant / water 1:2 - on absorbent and non-absorbent substrates: OTTO Primer see General Table of OTTO Primers

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	+ / 1105
Aluminium anodized	+ / 1225
Aluminium powder-coated	T / 1105 / 1225
Concrete	+ / 1105
Concrete block	-
Lead	-
Chrome	+ / 1225

Stainless steel	+ / 1225
Iron	-
Epoxid resin coating	-
Fibre cement	+ / 1105 / 1225
Glass	T
Wood, painted (solvent systems)	+ / T
Wood, painted (aqueous systems)	+ / T
Wood, varnished (solvent systems)	+ / 1105
Wood, varnished (aqueous systems)	+ / 1105
Wood, untreated	+ / 1105 / 1225
Ceramic, glazed	+ / T
Ceramics, unglazed	+ / T
Artificial stone	-
Plastic profiles (unplasticized, e. g. Vinnolit)	+ / 1105
Copper	+ / 1105
Melamine formaldehyde resins (e. g. Resopal®)	-
Brass	+ / 1105
Natural stone / marble	-
Polyester	-
Polypropylene	-
Cellular concrete	+ / 1105 / 1225
Plaster	+ / 1105 / 1225
PVC unplasticized	+ / 1105
PVC-soft-foils	-
Tinplate	-
Zinc, galvanised iron	-

+ = good adherence without primer

- = not suitable

T = Test/pilot test advised

The table above is based on adhesive experiments under laboratory conditions. In real conditions, the adhesive properties depend on an array of external influences (weather, dirt, loads, etc.). For this reason, the adhesion table is for orientation purposes only and does not represent any binding information.

Application information:

Apply the sealant evenly with hand operated- or air-compressed gun, surface must be pressed smoothly with moistened tools before skin forming begins. Remove uncured contaminants with water immediately. 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:

	310 ml cartridge	400 ml aluminium foil bag	580 ml aluminium foil bag
black	A205-04-C04	on request	on request
brown	A205-04-C05	on request	on request
concrete grey	A205-04-C56	on request	A205-08-C56
white	A205-04-C01	A205-07-C01	A205-08-C01
Packaging unit	20	20	20
Pieces per pallet	1200	900	880

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>