OTTOSEAL®
A 710

Technical Datasheet

1-component sealant based on acrylate
For indoor application

Characteristic:

- **Low vapour permeability**
  Complies with the requirements of the RAL assembly guideline
- **Low odour**
  Convenient processing
- **Can be painted and varnished – please observe application instruction in Technical Data Sheet**
  Optical adaptation and elastic protective coating possible
- **Permissible movement capability according to ISO 9046 (manufacturer's test) 18 %**
  Suitable also for large joint movements
- **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

Fields of application:

- For window and door mounting INSIDE
- For lasting airtight inside sealing of joints between windows and construction elements to be used in combination with OTTOSEAL® P 720 and OTTOSEAL® S 730 (for exterior application)

Standards and tests:

- Tested according to EN 15651 – Part 1: F EXT-INT 12.5 P
- Tested according to "Air impermeability and driving rain resistance of joints between window and construction parts after simulated short-term strain" by the ift Rosenheim, Germany (institute for window techniques)
- Suitable for applications according to IVD instruction sheet no. 9+12+24+31+35 (IVD = German industry association sealants)
- French VOC-emission class A+
- EMICODE® EC 1 Plus - very low emission
- Tested fire behaviour in accordance with EN 13501: class E
- Classification according to building certification systems, see the sustainability data sheet

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.
Avoid contact with materials which contain bitumen and which release solvents, e. g. butyl, EPDM, neoprene, insulating- and bituminous paint.
Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant. 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.

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When painting the sealant in joints with little movement, a drying time of at least one week has to be observed.
Do not apply at temperatures below +5 °C.
Regarding the constructional execution of the connecting joints we refer to the IVD instruction sheet no. 9. (IVD = German industry association sealants)

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/cm³]	~ 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
Tensile strength according to ISO 37, S3A [N/mm²]	~ 0,35
Temperature resistance from/to [°C]	- 20 / + 80
Water vapour diffusion resistance µ (DIN 53 122 Method 23-0/85)	~ 3200
Water vapour diffusion resistance µ (ISO 7783)	~ 2000
Water vapour diffusion equivalent air layer SD (DIN 53122-1, thickness of the sealant 10 mm) [m]	~ 32
Water vapour diffusion equivalent air layer SD (ISO 7783, thickness of the sealant 10 mm) [m]	~ 20
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12 (1) (2) (3)

1) Frost-free storage
2) Temporary storage at - 10 °C possible, but not longer than 48 hours
3) from date of manufacture

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 materials are available to improve the adhesion: for absorbent substrates – compound of acrylic adhesive / water 1:2 – OTTO Primer 1105 for highly absorbent substrates.

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.

Aluminium	+ / 1105
Aluminium anodized	+ / 1225
Aluminium powder-coated	T / 1105 / 1225
Concrete	+ / 1105
Wood, painted (solvent systems)	+ / T
Wood, painted (aquaeous systems)	+ / T
Wood, varnished (solvent systems)	+ / 1105
Wood, varnished (aquaeous systems)	+ / 1105
Wood, untreated	+ / 1105 / 1225 (1)
Clinker	+ / 1105
Artificial stone	-
Plastic profiles (unplasticized, e. g. Vinnolit)	+ / 1105
Copper	+ / 1105
Brass	+ / 1105
Natural stone / marble	OTTOSEAL® S 70
Cellular concrete	+ / 1105
Plaster	+ / 1105

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PVC unplasticized	+ / 1105
Zinc, galvanised iron	-

1) Upon high exposure to water please contact our Technical Department.

+ = good adherence without primer
- = not suitable
T = Test/pilot test advised

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 succesful 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 diminuition of durability or a change of material characteristics may arise.

Packaging:

	310 ml cartridge	580 ml aluminium foil bag
white	A710-04-C01	A710-08-C01
Packaging unit	**20**	**20**
Pieces per pallet	**1200**	**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 concludingly. 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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