

# OTTOSEAL® A 710 SPECIAL

The acrylic sealant for RAL assembly inside



1-component acrylic sealant

For indoor application

A 710



## Characteristics

- ▶ Low vapour permeability - Complies with the requirements of the RAL assembly guideline
- ▶ Low odour - No odour nuisance
- ▶ Can be painted and varnished – please observe application instruction in Technical Data Sheet
- ▶ Permissible movement capability according to ISO 9046 (manufacturer's test) 18 % - Suitable also for large joint movements
- ▶ Frost-resistant - 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 the permanent airtight indoor sealing of joints between windows and construction elements. Can be used in combination with the OTTO sealants OTTOSEAL® M 360 / OTTOSEAL® P 720 / OTTOSEAL® S 730 (for outdoor application)

## Standards and tests

- ▶ Tested according to EN 15651 – Part 1: F EXT-INT 12.5 P
- ▶ Tested fire behaviour in accordance with EN 13501: class E
- ▶ 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)
- ▶ EMICODE® EC 1 Plus - very low emission
- ▶ French VOC-emission class A+
- ▶ Suitable for applications according to IVD instruction sheet no. 9+12+24+31+35 (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, type 3 [N/mm²]	~ 0,35
Temperature resistance from/to [°C]	- 20 / + 80



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Water vapour diffusion resistance $\mu$ (DIN 53 122 Method 23-0/85)	~ 3200
Water vapour diffusion resistance $\mu$ (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 <sup>1</sup> 2 <sup>3</sup>

- 1) from production
- 2) Frost-free storage
- 3) 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.

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.

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 (aqueous systems)	+ / T
Wood, varnished (solvent systems)	+ / 1105
Wood, varnished (aqueous systems)	+ / 1105
Wood, untreated	+ / 1105 / 1225 <sup>1</sup>
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
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

### 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.

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.

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)

## 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	580 ml aluminium foil bag
○ white	A710-04-C01	A710-08-C01
<b>Pieces per packaging unit</b>	<b>20</b>	<b>20</b>
<b>Pieces per pallet</b>	<b>1200</b>	<b>880</b>

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](http://www.otto-chemie.de).