

OTTOSEAL® P 720 SPECIAL

The PU sealant for RAL assembly outside



1-component sealant based on polyurethane

For outdoor application

P 720



Characteristics

- ▶ Complies with the requirements of the RAL assembly guideline (e.g. high water vapour permeability and driving rain tightness) - Complies with tender requirements for component-tested systems and installations
- ▶ Good weathering and ageing resistance
- ▶ 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
- ▶ Silicone-free
- ▶ Cures without bubble formation

Fields of application

- ▶ For window and door mounting OUTSIDE
- ▶ Water permeable sealing of external joints between windows and construction parts resistant to driving rain to be used in combination with OTTOSEAL® A 710 (for the interior application)

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 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+27+31+35 (IVD = German industry association sealants)

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
Stress expansion modulus at 100 % according to ISO 37, type 3 [N/mm²]	~ 0,3



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Tensile expansion according to ISO 37, type 3 [%]	~ 800
Retroactivity according to ISO 7389 [%]	> 75
Temperature resistance from/to [°C]	- 40 / + 70
Water vapour diffusion resistance μ (DIN 53 122 Method 23-0/85)	~ 1700
Water vapour diffusion resistance μ (ISO 7783)	~ 1600
Water vapour diffusion equivalent air layer SD (DIN 53122-1, thickness of the sealant 10 mm) [m]	~ 17
Water vapour diffusion equivalent air layer SD (ISO 7783, thickness of the sealant 10 mm) [m]	~ 16
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 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.

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	1225
Aluminium anodized	1225
Aluminium powder-coated	T / 1226
Aluminium powder-coated (contains teflon)	T
Concrete	1225
Epoxid resin coating	1226
Epoxid resin mortar	T / 1226
Gypsum	T
Wood, painted (solvent systems)	1226
Wood, varnished (aqueous systems)	1226
Clinker	1225
Natural stone / marble	-
PVC unplasticized	1227
Cellular concrete	1225
Cement plaster	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.

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.

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.
 Regarding the constructional execution of the connecting joints we refer to the IVD instruction sheet no. 9. (IVD = German industry association sealants)

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

	310 ml aluminium cartridge	580 ml aluminium foil bag
● concrete grey	P720-20-C56	on request
○ white	P720-20-C01	P720-08-C01
Pieces per packaging unit	20	20
Pieces per pallet	1200	600

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.