OTTOSEAL®
S 730

Technical Datasheet

1-component silicone sealant based on oxime, neutral cross-linking, MEKO-free

For outdoor application

Characteristic:

- **Complies with the requirements of the RAL assembly guideline (e.g. high water vapour permeability)**
  Complies with tender requirements for component-tested systems and installations
- **Contains fungicides**
  Resistance to mould infestation
- **Non-corrosive**
  No (oxidation) corrosion on unprotected metal surfaces
- **Good compatibility with paints according to DIN 52452 (not paintable)**
  No interaction with existing and adjacent coatings
- **Excellent weathering, ageing and UV-resistance**
  For long-lasting indoor and outdoor applications

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 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+24+27+31+35 (IVD = German industry association sealants)
- French VOC-emission class A+
- Tested fire behaviour in accordance with EN 13501: class E
- Classification according to building certification systems, see the sustainability data sheet

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.
During the curing process of the material reaction products of the crosslinker are released.
Ensure good ventilation during application and curing.
The required vulcanization time prolongs with increasing thickness of the silicone layer. One-component silicones must not be used for full-surface bonding applications unless special constructional prerequisites are met. If one-component silicones are to be used for thickness layers of more than 15

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mm please contact our technical department beforehand.
If using smoothing agent remove the remaining water streaks on the adjoining surfaces immediately after sealing. If the surfaces are cleaned at a later time, permanent streaks may remain.
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]	~ 5 - 10
Curing in 24 hours at 23 °C/50 % RH [mm]	+ 2
Processing temperature from/to [°C]	+ 5 / + 35
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,2
Permissible movement capability [%]	25
Tensile strength according to ISO 37, S3A [N/mm²]	~ 1,4
Temperature resistance from/to [°C]	- 40 / + 180
Water vapour diffusion resistance µ (DIN 53 122 Method 23-0/85)	~ 1500
Water vapour diffusion resistance µ (ISO 7783)	~ 1000
Water vapour diffusion equivalent air layer SD (DIN 53122-1, thickness of the sealant 10 mm) [m]	~ 15
Water vapour diffusion equivalent air layer SD (ISO 7783, thickness of the sealant 10 mm) [m]	~ 10
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12 (1)

1) 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 fat, dry and 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.

Primer Table:

The OTTO Primer 1215, 1217 and 1218 are subject to the obligation to inform and to keep records according to the German Regulation of Chemical Interdiction (amongst others prohibition of self service) since 01.11.2005. Please observe the Technical Data Sheets (http://www.otto-chemie.de/en/data-sheets-certificates).
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	+
Aluminium anodized	+
Aluminium powder-coated	T / 1101
Aluminium powder-coated (contains teflon)	T
Concrete	+ / 1215
Concrete block	OTTOSEAL® S 70
Stainless steel	+ / 1216
Wood, painted (solvent systems)	+
Wood, painted (aquaeous systems)	+
Wood, varnished (solvent systems)	+
Wood, varnished (aquaeous systems)	+
Wood, untreated	1215 (1)
Clinker	1215
Artificial stone	OTTOSEAL® S 70
Plastic profiles (unplasticized, e. g. Vinnolit)	1217
Copper	+ (2)
Brass	+ (2)
Natural stone / marble	OTTOSEAL® S 70
PVC unplasticized	1217

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Cellular concrete	1215
Plaster	+ / 1215
Zinc, galvanised iron	+

1) Upon high exposure to water please contact our Technical Department.
2) The reaction of neutral silicone with non-ferrous metalls, such as copper, brass, etc. is possible. Upon curing unblocked air admission is necessary.

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

Application information:

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
black	S730-04-C04	on request
cement grey	S730-04-C706	on request
grey	S730-04-C02	on request
white	S730-04-C01	S730-08-C01
Packaging unit	**20**	**20**
Pieces per pallet	**1200**	**600**

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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