## OTTOSEAL® S 72



## **Technical Datasheet**

Characteristics:	<ul> <li>Neutral curing 1-component silicone adhesive/sealant based on alkoxy</li> <li>Adheres on almost all plastics without primer (except PR, PP, PTFE and similar plastics with a low surface tension)</li> <li>Very good adhesion on twin-wall sheets</li> <li>Does not cause stress cracks in non-prestressed acrylic glass (Plexiglas®) and polycarbonate (Makrolon®, Lexan®)</li> <li>Low odour</li> <li>High resistance to notches, tension and tearing</li> <li>Non-corrosive</li> <li>Excellent weathering, ageing and UV-resistance</li> </ul>
Fields of application:	- Bonding and sealing in plastic, greenhouse and conservatory construction
Standards and tests:	<ul> <li>The manufacturer has tested and confirmed the compatibility to strainless Plexiglas®. Test report on the compatibility with plexiglas®-XT is available.</li> <li>Positively tested for compatibility when in contact with food (by the Chemical Laboratory Dr. Stegemann, Georgsmarienhütte, Germany)</li> <li>Declaration of no objection – tested for use in food-related area (ISEGA Forschungs- und Untersuchungs-Gesellschaft mbH, Aschaffenburg, Germany)</li> <li>Suitable for applications according to IVD instruction sheet no. 21+31+35 (IVD = German industry association sealants)</li> <li>Conform to LEED® IEQ-credits 4.1 (Indoor Environmental Quality) adhesives and sealants</li> <li>Suitability for DGNB</li> <li>French VOC-emission class A+</li> <li>Certified according to GOS</li> <li>EMICODE® EC 1 Plus - very low emission</li> </ul>
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. During curing small amounts of alcohol are released. Ensure good ventilation during application and curing. After curing the product is completely odourless, physiologically harmless and unmodified. 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 mm please contact our technical department beforehand. Due to interaction with liquid or gaseous chemicals e.g. iodine, bromine or aldehyde containing substances, the silicone may discolour. It is adviseable to carry out tests before usage! Avoid contact with materials which contain bitumen and which release solvents, e. g. butyl, EPDM, neoprene, insulating- and bituminous paint.

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	Please contact our technical department if joints are exposed Plexiglas® is a registered trademark of Röhm GmbH, Darms of Bayer AG, Leverkusen - Lexan® is a registered trademark In overlapping bonding/sealing of polycarbonate sheets, espo sealant can not be excluded.	I to heavy chemical or physical load. tadt - Makrolon® is a registered trademark of GE Plastics BV, Bergen op Zoom ecially outdoors, discolouration of the	
Technical properties:	Skin-forming time at 23 °C/50 % RH [minutes] Curing in 24 hours at 23 °C/50 % RH [mm]	~ 12 ~ 2	
	Processing temperature from/to [°C]	+ 5 / + 40	
	Viscosity at 23 °C	pasty, stable	
	Density at 23 °C according to ISO 1183-1 [g/cm <sup>3</sup> ]	~ 1,0	
	Shore-A-hardness according to ISO 868	~ 30	
	Permissible movement capability [%]	25	
	Stress expansion modulus at 100 % according to ISO 37, S3A [N/r	nm²] ~ 0,4	
	Tensile expansion according to ISO 37, S3A [%]	~ 600	
	Tensile strength according to ISO 37, S3A [N/mm <sup>2</sup> ]	~ 1,4	
	Temperature resistance from/to [°C]	- 40 / + 150 (1)	
	Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	12	
	<ol> <li>In cases where the cured sealant is constantly exposed to very high temperatures, the vulcanised product may change colour and its surface may stay somewhat sticky.</li> </ol>		
	These data are not suitable for the issue of specifications. Pl specifications.	ease contact OTTO-CHEMIE before issuing	
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. Clean sensitive plastics with OTTO Cleaner T or with a cleaner which has been recommended by the manufacturer of the plastic.		
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.		
	ABS	+	
	Acrylic glass/PMMA (Plexiglas® etc.)	+/1217	
	Aluminium	+	
	Aluminium anodized	+	
	Aluminium powder-coated	1101 / T	
	Aluminium powder-coated (contains teflon)	Т	
	Concrete	1105 / 1215	
	Chrome	+	
	Stainless steel	+	
	Fibre cement	1105 / 1215	
	Glass	+	
	Ceramic, glazed	+	
	Ceramics, unglazed	+	
	Plastic profiles (unplasticized, e.g. Vinnolit)	+	
	Natural stone / marble	OTTOSEAL® S 70	
	Polyamide	+	
	Polycarbonate	+/1217	
	Polyester	+	

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Polyethylene (PE)	Т	
Polypropylene	Т	
Cellular concrete	1105 / 1215	
PVC unplasticized	+	
PVC-soft-foils	+	
Teflon® (PTEF_Polytetrafluorethylen)	T	
	1016	
Zine, getveniged iron	1210	
	1210	
+ = good adherence without primer - = not suitable		
T = Test/pilot test advised		
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.		
	310 ml cartridge	
DAL 7004	S72 04 C7004	
	S72-04-C7004	
RAL 9010	572-04-09010	
transparent	572-04-000	
Packaging unit	20	
Please observe the material safety data sheet.		
Information about disposal: Please refer to the material safety data sheet.		
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		
	Polyethylene (PE) Polypropylene Cellular concrete PVC unplasticized PVC-soft-foils Teflon® (PTFE, Polytetrafluorethylen) Tinplate Zinc, galvanised iron + = good adherence without primer - = not suitable T = Test/pilot test advised Due to the many possible influences during and after applica trials first. Please observe the recommended shelf life which is printed of We recommend to store our products in unopened original pa temperatures of +15 °C up to +25 °C. If the products are stor temperatures of +15 °C up to +25 °C. If the products are stor temperatures / air humidity for longer periods (some weeks), material characteristics may arise. RAL 7004 RAL 9010 transparent Packaging unit Pieces per pallet Please observe the material safety data sheet. Information about disposal: Please refer to the material safet; All information in this publication is based on our current tech since conditions and methods of use and application of our p that you test the product before final use. Information given if of OTTO-CHEMIE in connection with this technical data sheet OTTO-CHEMIE to prove their validity. The characteristics sta characteristics of the article broadly and concludingly. Sugge confirmation of the appropriateness for the recommended int	

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