

# OTTOSEAL®

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## S 70

### Technical Data Sheet

identical with with Novasil® S 70

#### Characteristics

- Neutral-curing RTV-1 silicone sealant oxime based
- Guaranteed not to cause any migratory staining on natural stone
- Very high crack and notch resistance
- Contains fungicide
- Non-corrosive
- Available in 29 colours ex warehouse
- Also available in "structure" colours with a stonelike surface
- UV resistant
- Excellent weathering and ageing resistance

#### Fields of application

- Sealing and jointing on marble and all natural stones, for example sandstone, quartzite, granite, gneiss, porphyry, etc. in interior and exterior areas
- Especially suitable for flooring applications
- Movement-compensating bonding of natural stone on metal, e.g. stairs on a metal construction
- Suitable for underwater seals in marble / natural stone, swimming pools

#### Standards and tests

- Tested according to ASTM C 1248 by DL Laboratories, New York

#### Important information

Direct contact between the sealant and the following plasticizer emitting materials should be avoided: butyl rubber, EPDM, neoprene, insulation coatings, bituminous coatings, etc. Apply the sealant in well ventilated rooms, ensure good ventilation during application and vulcanization. Please note that smoke from cigarettes or similar substances present in the surroundings may discolour the sealant.

The required vulcanization time prolongs with increasing thickness of the silicone. One-part silicones must not be used for bonding applications where the silicone is supposed to be spread all over the surface. Such applications require a special design – please contact our technical department. One-part silicones are not designed to be used in layers of more than 15 mm.

## Features

**OTTOSEAL® S 70** is a ready-to-use, neutral, one part silicone rubber based on an oxime cross-linking system.

## Technical properties

Viscosity (23 °C):	non-sag, pasty
Density:	approx. 1.04 g/cm <sup>3</sup>
Shore-A hardness (DIN 53505):	approx. 30
Tensile elongation (DIN 53504):	approx. 400 %
Tensile strength (DIN 53504):	approx. 1.4 N/mm <sup>2</sup>
Modulus at 100 % elongation:	approx. 0.5 N/mm <sup>2</sup>
Movement capability:	20 %
Temperature resistance:	- 40 °C up to + 180 °C
Tooling temperature:	+ 5 °C up to + 35 °C
Skin-forming time (23°C, 50 % RH):	approx. 5 min.
Curing in 24 hours (23°C, 50 % RH):	approx. 3 mm
Shelf life:	12 months from the date of manufacture at room temperature

These data are not intended for use in preparing specifications. Please contact **OTTO-CHEMIE** before writing specifications.

## Primer table

**Good adhesion without primer can be achieved on the following mentioned natural stones / artificial stones:**

Afrika Red  
Balmoral  
Baltic Brown  
Bianco Bahia  
Bianco Sardo  
Bianco Silver  
Bianco Tarin Polished  
Bohus Grey  
Granite  
Jura  
Cashmere White  
Labrador Dark  
Multicolor  
Rosa Porrino  
Sarrizio Silver  
Solhofer  
Spluga Verde  
Yuparana  
Azul Atlantico

**The following natural stones / artificial stones require OTTO Primer 1216:**

Ararat Rosa Polished  
Calcatta  
Carrara White  
Daino Chiaro  
Daino Suro  
Rosso Verona  
Statuario  
Breccia Aurora  
Botticino

Acrylic bathroom surfaces (bath tubs)	+ / 1101	Melamine formaldehyde resins	1216
Acrylic glass (Makrolon, Plexiglass, etc.) <sup>2</sup>	R	Natural stone / Marble	+ / 1216
Aluminium	+	Plaster	+ / 1215
Aluminium, anodized	+	Plastic profiles, e.g. Vinnolit	+
Aluminium powder coated, TGIC-free	R / 1101	Polyester	+
Artificial stone / precast stone	+ / 1216	Polypropylene (PP)	R
Brass <sup>1</sup>	+	PVC soft, foils	+
Cellular concrete	1215	PVC unplasticized	1217
Ceramics, glazed	+	Sandstone	1102
Ceramics, unglazed	+	Stainless steel, rust-proof	+ / 1216
Chrome	1216	Tinplate	1216
Concrete	1215 / 1218	Wood, painted (solvent systems)	+
Copper <sup>2</sup>	+	Wood, painted (aqueous systems)	+
Epoxy resin coating	R	Wood, untreated	+
Fibre reinforced cement	1215	Wood, varnished (solvent systems)	+
Glass	+	Wood, varnished (aqueous systems)	+
Iron, sand blasted	+	Zinc, galvanised iron	+ / 1216
Lead	+		

+ = good adhesion without primer

- = not suitable

R = further inquiry or preliminary tests required

1 The reaction of OTTOSEAL® S 70 with on non-ferrous metals, e.g. chopper, brass, etc. is possible. Curing should not take place in confined spaces.

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## Application information

Provide good ventilation during the application and vulcanization of **OTTOSEAL® S 70**. The joint flanks and surfaces must be clean, dry, free from fat and firm. We recommend OTTO cleaner T or methylated spirit to establish clean surfaces.

For natural stones which are subject to permanent wet conditions e.g. in bath rooms and showers we recommend to apply always OTTO Primer 1216. Apply OTTO Primer 1216 and allow for a drying time of 15 minutes. Most natural stones which are not subject to permanent wet conditions do not have to be primed. But some natural stones require even without wet stress pretreatment with OTTO Primer 1216 in order to achieve optimal adhesion. Sandstone requires a pretreatment with OTTO primer 1102 after cleaning off loose particles by mechanical means, e.g. with a brush.

Carry out trials or contact our technical department when sealing other natural stones.

Please contact our technical department before sealing joints in swimming pools or saunas as well as joints in natural stones which are permanently immersed in water.

**Primers must be applied very carefully, because stains/spots might appear if primers are spread or spattered on the surface of some natural stones.**

**Some natural stones are very sensitive to conventional smoothing liquids such as washing-up liquids – stains/spots are caused very often on the surface of the natural stone. Such smoothing liquids may be used just diluted, each time fresh and unused. Residues must be removed immediately We recommend not to use conventional smoothing liquids but OTTO Marble Silicone Smoothing Agent.**

**The sealant must not be spread on the surface of the natural stone, because the sealant is difficult to remove once it is in the pores of the natural stone, especially in the pores of unpolished natural stones.**

However, because conditions and methods of use of our products are beyond our control, customer tests are required to ensure that our products are safe, effective and fully satisfactory for the intended end use.

Please observe the recommended shelf life that is printed onto the packaging.

## Packaging

Unit	Units per box	Units per pallet
Cartridges 310 ml	20	1200
Alu-Foil bag 400 ml	20	900

400 ml alu-foil bags are available upon request with the following colours:  
C67 – anthrazit, C10 – bahamabeige, C56 – betongrau, C43 – manhattan,  
C18 – sanitärgrau, C00 – transparent, C01 weiß.

## Colours

C67 – anthrazit	C47 – graublau Struktur	C82 – rotbeige
C137 – anthrazitgrau	C41 – graurot Struktur	C32 – sandrot Struktur
C10 – bahamabeige	C44 – hellblau Struktur	C1110 – sandsteinbeige
C56 – betongrau	C109 – hellgrau Struktur	C18 – sanitärgrau
C05 – braun	C1108 - herbstgrau	C04 – schwarz
C45 – chinchilla	C08 –jasmin	C34 – silbergrün Struktur
C111 – distelgrau Struktur	C38 – lichtgrau	C26 – sunset
C37 – dunkelgrün	C43 – manhattan	C00 – transparent
C197 – edelstahl	C1109 – nachtgrau	C01 - weiß
C110 – fugengrau Struktur	C80 - perlgrau	

All colours are equipped with fungicide apart from C04 – schwarz and C05 – braun.

OTTOSEAL® S 70 is also available with a dull surface appearance – please refer to the designation OTTOSEAL® S 70 SP 4558 (please note surcharge for small quantities)

OTTOSEAL® S 70 SP 4558 must not be tooled with smoothing liquid in order to establish a dull surface appearance.

## Safety precautions

Please refer to the material safety data sheet.

## Disposal

Disposal should be made in accordance with federal, state and local regulations.

## Warranty information

All information in this publication are based on our current technical knowledge and experiences. Due to numerous influences they do not exempt processors and purchasers from conducting their own tests and examinations. 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.) include in case of doubt no acceptance of a guarantee. In case of doubt only written explanations of OTTO-CHEMIE are representative for an acceptance of a guarantee. All mentioned document conditions in this technical data sheet lay down the terms of delivery fully and completely. Statements concerning possible or suggested uses of the materials described herein can not be seen as warranty for your application. We reserve the right to alter product constants within the scope of technical progress or new developments. We are pleased to be at your disposal for inquiries, also regarding specific application problems. If the application in which the products are used requires governmental approval or clearance, the user is responsible to obtain such approval. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and if necessary, clarifying the position. In the event of deficiency our terms and conditions are applicable. If our terms and conditions are not with you, we send them to you on request.