

RTV-1 silicone sealant for high-duty floor joints and Acid proof constructions

AIRBUS Spec.: ABS5907A, ABS5907AP, latest version

1. Description

Floorsil™ 2

- is a high-performance one-component silicone sealant.
- is based on a oxime cross-linking system
- vulcanizes at room temperature (RTV)

Floorsil™ 2 is designed for applications in the aircraft industry. Sealing non-textile floor coverings made of silicone, PVC in aircrafts.

Please note: Floorsil 2 is not suitable for sewage applications, for motorway and runway applications. Do not use Floorsil 2 for sealing applications around petrol pumps.

Advantages

- + Especially designed for high – duty floor joints and acid proof constructions in contrast to conventional sealants, Floorsil 2 shows a very high notched impact value and an extreme resistance to chemicals
- + Fast curing and short tack – free time
- + Excellent compatibility and adhesion to silicone floor coverings
- + Excellent weather ability, resistance to ageing, UV-radiation, temperature resistance
- + Resistance to lift truck and fork lift traffic
- + Resistance to steam jet cleaning
- + Excellent resistance to detergents
- + Extreme resistance to chemicals (see chapter 2.)
- + Ready to use
- + High tensile strength and high shore – A – Hardness ensure an excellent notched impact value.
- + Contains no solvents, formaldehyde, CFC, PCB, PCP
 - The substances listed above are not expected to be present in our Floorsil-2. Please note that we do not specifically analyze for the presence of the substances referred to above and cannot guarantee the absence or level of these substances to any specific limit or threshold value."

Chapter 1.: Technical data

Viscosity:	Non-sag, pasty
Density at 23 °C, 50 % RH: ISO 2781	~ 1.2 g/cm ³
Shore-A-hardness after 7 d at 23 °C, 50 % RH; ISO 868	35
Temperature resistance:	- 40 to + 265 °C
Tooling temperature:	+ 5 to + 35 °C
Skin-forming time at 23 °C, 50 % RH:	~ 10 min. (standard)
Curing in 24 hours at 23 °C, 50 % RH:	~ 2 mm
Tensile strength: ISO 37, Type 2 test piece	~ 2,9 N/mm ²
Tensile elongation: ISO 37, Type 2 test piece	~ 400 %
Modulus at 100 % elongation:	~ 0,9 N/mm ²
Shelf life at 23 °C, 50 % RH: Cartridge	≤ 15 months

These data are not intended for use in preparing specifications. Please contact **Holcim Technical Solutions and Products GMBH** before writing specifications.

Technical Data Sheet

Floorsil™ 2



Chapter 2: Resistance to chemicals at room temperature:

Chemical	Concentration	Resistance to chemical
Acetic acid, 23°C; 30 min	10 %	+
Hydrochloric acid	10 %	0
Caustic soda solution	10 %	+
Caustic soda solution	20 %	+
Ammonia solution	25 %	+
Ethyl alcohol		+
Acetone		0
Petrol		-
Diesel fuel		-
Ethylene glycol		+
Formalin	10 %	+
Cooler Anti freeze ARAL Pure		
Antifreeze : water		+
1 : 2 (-20°C)		+
1 : 1,5 (-27°C)		+
1 : 1 (- 40°C)		+
Sea water		+
Methanol		+
Cold degreasing agent ARAL		-

Agenda:

+	RESISTANCE TO CHEMICAL
0	Short – term resistance to chemical (72 hours)
-	Not resistance

2. Packaging

Floorsil™ 2 is packed in 310 ml cartridges. A carton is packed with 12 cartridges.
You can have special cartridges on request.

3. Safety precautions during processing, First-aid, Disposal

See Material Safety Data Sheet

4. Storage Conditions

We recommend storing our products in unopened original packaging's dry (< 60 % RAH) 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.

Recommendation for opened cartridges: As soon as Floorsil 2 encounters humidity the material reacts and hardens. This means that depending on the environmental conditions (relative humidity and temperature), this reaction takes place quickly or more slowly.

We therefore recommend disposing of opened cartridges.

5. Edition

Edition 16; 12.02.2024 (printed 23.02.2024)

This edition becomes invalid in the event of a republication.