

## Technical Data Sheet

### Floorsil™ FCS

RTV-2 silicone sealant for high-duty floor joints and acidproof constructions

#### Description

##### Floorsil™ FCS

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

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

**Floorsil™ FCS** is successfully qualified according Airbus Specification ABS5907

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

#### Advantages

- + Especially designed for high – duty floor joints and acid proof constructions in contrast to conventional sealants, Floorsil FCS 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 weatherability, resistance to ageing, UV-radiation, temperature resistance and resistance to detergents
- + Ready to use
- + Contains no solvents, formaldehyde, CFC, PCB, PCP
- + colours on request

#### Chapter 1.: Technical data - Unmixed components

		Component A	Component B
Viscosity:		pasty	non-sag, pasty
Density:	at 23 °C, ISO 1183 B	~ 1.31 g/cm <sup>3</sup>	~ 1.25 g/cm <sup>3</sup>
Shelf life:	at 23 °C, 50 % RH	6 months	6 months

#### Properties in mixed condition: (Uncured compound/mixed components)

Properties:	Test method	unit	Values:
Applicaiton time	DIN65262, para4.1.2.4	minutes	2 - 6
Minimum curing time	Airbus: AITM -0033	h	3
Non volatile matter	Airbus: AITM3-0025	%	90

#### Properties in cured condition: (Curing conditions: 168 h at 23/50 according to ISO291)

Mixing ratio according to volume (base A : curing agent B) 10 : 1

Density at:	ISO2781; Methode A	g/cm <sup>3</sup>	~1.32 g/cm <sup>3</sup>
Shore-A-hardness	ISO868	°Shore A	49
Modulus at 100% strain	ISO37 Type 2	MPA	1
Temperature resistance:	long term	°C	- 40 to + 180

These data are not intended for preparing specifications. Please contact **METZELER** before writing specifications.

## 2. Instructions for use

### 2.1. Surface preparation

Compatibility: Paints, lacquers, plastics and any other coatings must be compatible to the sealant/adhesive.

Cleaning: Clean all joints/substrates, remove all foreign matter and contaminants such as mould-release agents, preserving agents, grease, oil, dust, water, frost, surface dirt, old sealants/adhesives and other substances which can affect adhesion. The joint edges/substrates must be firm.

Cleaners for non-porous substrates: They should be cleaned methylated spirit or other cleaners on an acetone or isopropanol basis and a clean, lintfree, cotton cloth.

## 2.2. Adhesion and Priming

Floorsil products are high-performance and highly specialized products which exhibit an excellent primerless adhesion to Airfloor and Airflex products! For PVC and similar materials please use **Floorsil 1217**

## 3. Packaging

Floorsil™ FCS is packed in 490 ml double cartridges including static mixing nozzles.

## 4. Application sealant

Processing of 2-component sealants out of side –by-side cartridges:

First of all remove the lids of both components chambers. Place cartridges into the pistol. Squeeze out material, until material comes out of both chambers. Wipe of material and attach the static mixing nozzle with help of the union nut. Check homogeneity of the mixture. Sealant must be applied after the primer has dried up for least 15 minutes. Avoid direct contact between sealant and plasticizer emigrating products: Direct contact between sealant and the following plasticizer emigrating products should be avoided because these products may cause yellowing of light-coloured silicone sealants: e.g. butyl rubber; ethylenepropylenedienemonomeropolymer (EPDM), neoprene, bitumious and products.

**Avoid air entrapment:** The joint must be completely filled to avoid air entrapment and to make the joint leak-proof

**Tooling / smoothing:** The sealant must be smoothly tooled before potlife (within 2 minutes) in order to ensure integral contact with joint flanks.

**Masking tapes:** Masking tapes must be removed immediately after tooling

Using sealed objects the first time: Floorsil FCS must have cured completely before the sealant object is exposed to mechanical or chemical stress the first time.

## 5. Safety precautions during processing, First-aid, Disposal

See Material Safety Data Sheet

## 6. Warranty

All information, data, direction or advice presented by METZELER are believed to be accurate and reliable, but do not absolve the user from carefully checking all supplies immediately on receipt. However, as METZELER has no control over the uses to which its products may be put or the conditions of use, it is the user's responsibility to determine suitability of use e.g. by performing own tests. METZELER makes no warranties concerning the fitness or suitability of its products for a particular use. Statements concerning possible or suggested uses of the materials described herein can not be seen as warranty for your application. METZELER warrants only that its products will meet its specifications. We reserve the right to alter product constants within the scope of technical progress or new developments.

Of course, METZELER can perform tests and deliver a special written recommendation for a specific application on request.

If the application in which the products are used requires governmental approval or clearance, the user must obtain it.

In the event of a claim due to failure of our products, METZELER's sole liability is limited to provide sufficient product for replacement. METZELER will not be liable for any labour or any other costs associated with the repair, if the failure is due to incorrect use of any materials.

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.

## 7. Edition

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