

e-Catalogue

Aircraft Floor Coverings

Airfloor® Airflex® Floorsil®

Airfloor® and Airflex®

Durability

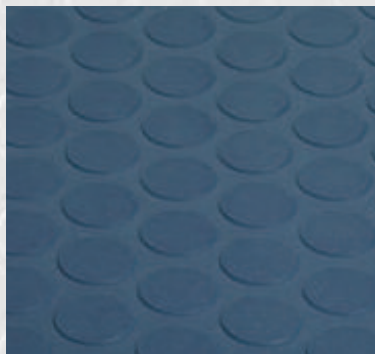
Safety

Lower Operating Costs

Airfloor® and Airflex® Non-Textile Floor Covering (NTF) systems provide unsurpassed durability and safety for Aircraft floor covering applications. The Silicone Rubber wear surface chemically bonds with our Floorsil® sealant to create a durable, watertight system which helps prevent leakage and subsequent corrosion damage commonly associated with failures of traditional PVC-based NTF systems.

In addition to lowering operating cost through reduced maintenance, Airfloor® and Airflex® NTF provides industry leading safety through extremely low smoke and toxic gas emissions in the event of a fire.

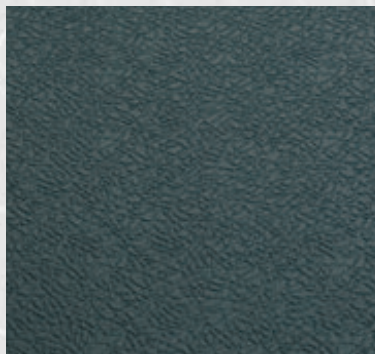
Surface designs:



dots 19 mm, asymmetric



dots 10 mm, symmetric



grained



ribbed



dots 8 mm, asymmetric

Standard colours:



dark grey
(88)



dark brown
(97)



choco brown
(99)



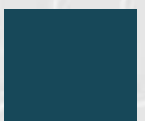
pacific blue
(57)



marino
(49)



dove blue
(52)



blue grey
(53)

Special colours on request!

DATA SHEET

AIRFLOOR[®] AFR

Color: Valid in all standard colors, see color range

Design: Ribbed (R)
Dots 8 mm, asymmetrically arranged (DA8)
Dots 19 mm, asymmetrically arranged (DA19)
Dots 10 mm, symmetrically arranged (DS10)

Dimension: Width standard 950 mm (37,4 in)
standard 1.500 mm (59 in)

Length standard 5.000 mm (197 in)
max. 6.500 mm (255,9 in)

Smaller and shorter sheets are possible!

Thickness: DA8 - 2,2 mm
DA19 - 2,3 mm
R - 2,5 mm

Important characteristics:

Weight: 2.750 g/m²

Airfloor[®] AFR has been tested to the following requirements:

Airfloor[®] R and DA8 fulfill the AIRBUS High Quality Specification 2520M1F020200 and ABS5717.

Flammability: FAR 25.853(a) App.F, Part I, para (a) (1) (ii),
Amdt 91

Toxic gases and smoke density: Toxicity: ABD 0031; issue A, section 7.4;
AITM 3.0005
Smoke density: ABD 0031; issue A, section 7.3,
AITM 2.007

Static and Sliding Friction: ISO 8295, DIN 53375, FAR/JAR25.793

Impact: AIRBUS Spec: 2520M1F020200, para 2.2

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DATA SHEET

AIRFLEX[®] GP

Color: Valid in all standard colors, see color range

Design: Ribbed (R)
Dots 8 mm, asymmetrically arranged (DA8)
Dots 10 mm, symmetrically arranged (DS10)
Dots 19 mm, asymmetrically arranged (DA19)

Dimension: Width standard: 1.500 mm (59 in)
max. 3.000 mm (118 in)
Length standard 5.000 mm (197 in)
max. 6.500 mm (256 in)

Smaller and shorter sheets are possible!

Thickness: DA8 - 1,9 mm
DA19 / DS10: - 2,0 mm
R - 2,2 mm

Important characteristics:

Weight: 65 Oz/Sqyd (+/- 5 Oz/sqyd) / 2200 g/sqm

Airflex[®] GP has been tested to the following requirements:

Flammability: FAR 25.853(b)App.F, Part I, para (a)(1) (ii),
Amdt 91

Toxic gases and smoke density: Toxicity: ABD 0031; issue A, section 7.4;
AITM 3.0005
Smoke density: ABD 0031; issue A, section 7.3,
AITM 2.007

Static and Sliding Friction: ISO 8295, DIN 53375, FAR/JAR 25.793
Boeing BMS 286 para 8.8 / para 8.9

Durability – dry and wet: BMS8-286 paragraph 8.2, BSS 7300

Boeing 787 Specification: D861Z201-01

Prepared: Bormuth	Date of first Issue: 02.02.2009	Issue: Issue 6	Date: 20.11.2012	Changed / Date:: Möller/ 20.11.2012	Print Date: 26.03.13
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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 ³	~ 1.25 g/cm ³
Shelf life:	at 23 °C, 50 % RH	6 months	6 months

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

Properties:	Test method	unit	Values:
Applictaion 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 ³	~1.32 g/cm ³
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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Germany		

	Technical Data Sheet Floorsil™ 2		
Date: 20.08.2011	Issue 5	Prepared: J.Bormuth	Release: PM / QM

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

AIRBUS Spec.: DA4-653-3SF ; Issue 8; Date: 10/10/01

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 weatherability, 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

Chapter 1.: Technical data

Viscosity:	Non-sag, pasty
Density at 23 °C, 50 % RH: ISO 2781	~ 1.16 g/cm ³
Shore-A-hardness after 7 d at 23 °C, 50 % RH; ISO 868	- 38
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 – 3 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:	~ 1,00 N/mm ²
Movement capability	~ 20 %
Shelf life at 23 °C, 50 % RH: Cartridge	15 months

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

	Technical Data Sheet Floorsil™ 2		
Date: 20.08.2011	Issue 5	Prepared: J.Bormuth	Release: PM / QM

Chapter 2: Resistance to chemicals at room temperature:

Chemical	Concentration	Resistance to chemical
Acetic acid, 23°C; 30 min	10 %	+
Cleaning Agent AMS 1550, 23 °C; 30 min	-	+
Desinfectant agent AMS 1452: 23 °C; 30 min	-	+
Hydrochloric acid	10 %	0
Caustic soda solution	10 %	+
Caustic soda solution	20 %	+
Ammonia solution	25 %	+
Ethylalcohol		+
Acetone		0
Petrol		-
Diesel fuel		-
Ethylene glycole		+
Formalin	10 %	+
Cooler Antifreeze ARAL Pure		
Antifreeze : water		+
1 : 2 (-20°C)		+
1 : 1,5 (-27°C)		+
1 : 1 (-40°C)		+
Sea water		+
Methanol		+
Cold degreasingagent ARAL		-

Agenda:

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

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

4. Application sealant

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; ethylenepropylenedienemonomerepolymer (EPDM), neoprene, bitumious and products.

Application sealant: Sealant must be applied after the primer has dried up for least 15 minutes

	Technical Data Sheet Floorsil™ 2		
Date: 20.08.2011	Issue 5	Prepared: J.Bormuth	Release: PM / QM

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 the skin – formation in order to ensure integral contact with joint flanks.

Masking tapes: Masking tapes must be removed immediately after tooling

Steam jet apparatus: On using a steam – jet apparatus the distance between the joint and the steam nozzle is to be at least 50 cm.

Using the sealed objects the first time: Floorsil 2 must have cured completely before the sealant object is exposed to mechanical or chemical stress the first time. Floorsil 2 should have cured at least 24 to 48 hours at room temperature (see chapter 1. For curing data)

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

See Material Safety Data Sheet

6. Warranty

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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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FLOORSIL 2 AVAILABLE COLOURS



White 7362



Dream Grey



Papyrus White



Sand Beige



Light Beige



Rosewood



Amazonas Red (16)



Red



Red Violet (19)



Burgundy (18)



Wood Classic Oak



Dark Sand (93)



Clay Brown



Dark Brown (97)



Violet Grey



Dove Blue (52)



Marino (49)



Midnight Navy (58)



Pacific Blue (57)



Night Blue (59)



Dark Blue (51)



Dark Green (46)



Grey 429 (82)



Silver



Middle Grey



Stone Grey



BAC 7800 Grey (83)



New York Grey



Basalt Grey (80)



Granite (87)



Blue Grey (53)



Light Grey (84)



BAC 714 Grey (86)



Grey 90 (90)



Dark Grey (88)



Quarz Grey (92)



Blue Black (56)



Black Blue (00)



Black Brown (02)



Signal Black

Colours may be different from actual due to reproduction variance

Installation Recommendations for FLOORSIL®

METZELER 
Aircraft Flooring Systems

 **CooperStandard**
PERFORMANCE PRODUCTS

SURFACE PREPARATION

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

Cleaning: Clean all joints/substrates, remove all 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, lint-free, cotton cloth.

ADHESION AND PRIMING

Floorsil products are high-performance and highly specialized products which exhibit an excellent primerless adhesion to numerous substrates. For PVC, PUR, Duroflex, Durofloor and similar materials please use FLOORSIL 1217.

APPLICATION SEALANT

Avoid direct contact between sealant and plasticizer emitting products: Direct contact between sealant and the following plasticizer emitting products should be avoided because these products might cause yellowing of light-coloured silicone sealants: e.g. butyl rubber; ethylenepropylene-dienemonomer copolymer (EPDM), neoprene, bituminous and products.

Sealant to be applied after the primer has dried up for at least 15 minutes. The distance between the sheets has to be approx. 1/10 in. The sheet surface has to be protected with a thin adhesive-tape, installed approx. 1/10 in. from the edge.

Avoid air entrapment: The joint must be completely filled to avoid air entrapment in order to make the joint leak-proof.

Tooling / smoothing: The sealant must be smoothly tooled before the skin formation in order to ensure integral contact with joint flanks.

Masking tapes: Masking tapes must be removed immediately after tooling

Steam jet apparatus: Using a steam jet apparatus the distance between the joint and the steam nozzle has to be at least 50 cm.

When using the sealed objects for the first time: Floorsil® 2 must have cured completely before the sealant object is exposed to mechanical or chemical stress for the first time. Floorsil® 2 should have cured at least 24 to 48 hours at room temperature.

SAFETY PRECAUTIONS DURING PROCESSING, FIRST-AID, DISPOSAL

See Material Safety Data Sheet and Technical Data Sheet

ADDITIONAL INFORMATION ABOUT FLOORSIL®

- FLOORSIL® is surface-dry in approx. 15 min. and fully useable in approx. 4 hours.
- FLOORSIL® is available in the same colours as AIRFLOOR and AIRFLEX®
- FLOORSIL® is made of the same silicon-based product as AIRFLOOR®/AIRFLEX®. This guarantees an **intensive, stable and absolutely waterproof connection**.
- FLOORSIL® expires after one year following production date.

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Installation Recommendations

for AIRFLOOR® / AIRFLEX®



PREPARATION

- Remove uneven parts of the surface and sharp-edges
- Clean backing thoroughly as it has to be dry, and free of dust and oil for adhesion improvement

INSTALLATION

- Roughly trim the AIRFLOOR / AIRFLEX to the required size using a carpet-knife
- Fit in the AIRFLOOR / AIRFLEX exactly by cutting it with scissors, a carpet knife or even a air driven milling cutter
- AIRFLOOR / AIRFLEX can be applied and fastened to the surface by using a double-back tape (Scotch 950 (3M) / 708 (Polykene) / P55 Permacell). Fix the adhesive tape along the edges of the surface first, then stick it in parallel stripes on the floor in a distance of 1 – 2 cm.
- Install the AIRFLOOR / AIRFLEX by fixing one edge first, then adjust it exactly and stick it completely to the floor. In order to avoid air bubbles, make sure the edge of the AIRFLOOR / AIRFLEX is free of double back tape. If more than one sheet is installed, ensure that there is a joint of approx. 1/10" – 2/10" left between the AIRFLOOR / AIRFLEX sheets!
- Under the joint install one stripe of double back tape, and than seal it as instructed using FLOORSIL
- Press the sheet to the surface with a roll to improve the adhesion.

Caution

Wearing of latex rubber gloves and safety glasses is recommended

IMPORTANT NOTE

Seal AIRFLOOR / AIRFLEX *exclusively* with FLOORSIL !!

Follow the attached instructions regarding the use of FLOORSIL !!

ADDITIONAL INFORMATION ABOUT AIRFLOOR / AIRFLEX

AIRFLOOR / AIRFLEX may also be installed as a cove, (i.e. the edges can be folded over 1 or 2 inches up the wall and so build a seamless basin).

RESISTANCE TO CONTAMINANTS

AIRFLOOR / AIRFLEX has a silicon surface which is resistant to all types of beverages, food and other possible contaminants, (e.g. cosmetics, soap, urine, deicingfluid and saltwater).

The silicon surface is not affected by any kind of waste or liquid and AIRFLOOR / AIRFLEX is very easy to clean.

CLEANING INSTRUCTION:

Only vacuuming or if necessary for cleaning of the silicon surface only use water or a standard cleaning agent for carpeting.

TEMPERATURE DURING INSTALLATION:

Airfloor and Airflex do not have any constraints on temperature for installation but the Installer should consult the adhesive manufacturer for recommended temperature condition and surface preparation for optimum adhesive performance

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Repair Recommendations
for AIRFLOOR® / AIRFLEX®



Tools and Materials required

- Floorsil 2
- cotton fabric
- roller
- solvent
- utility knife
- spatula
- double-faced tape
- tape

**Repair Procedure of damaged AIRFLOOR® /AIRFLEX®
silicon surface**

Damaged silicon surface can be glued on with Floorsil 2.

1. Lift off the silicone surface and clean the back side and the laminate with a clean cotton fabric impregnated with solvent
2. The surface has to be dry and free of dust and oil.
3. Apply a small amount of Floorsil 2 to the laminate and apply pressure to the silicone surface carefully with your finger, smooth and level with a roller.
4. Remove excessive Floorsil 2 with a clean cotton fabric.
5. Smooth out the joint with your moist finger, clean and dry with clean cotton fabric.
6. The material has to vulcanize at room temperature 12 hours

Replacement of removed silicone surface

1. Removed small parts of the silicone surface can be filled with Floorsil 2. (see 1.)
2. Smooth out Floorsil 2 with your moist finger.
3. Vulcanization time 12 hours at least.

**REPAIR procedure of damaged AIRFLOOR® /AIRFLEX®
silicone surface and laminate**

1. Remove the damaged piece of Airfloor® /Airflex® rectangularly with a knife.
2. Clean the bottom with a clean cotton fabric impregnated with solvent
3. The bottom has to be dry and free of dust and oil.
4. Cut a new piece of Airfloor/Airflex slightly smaller in width and length approx. 4 to 6 mm.
5. Install the piece by applying a double-faced tape, for example Scotch 950, on the bottom.
6. Mask off the seam using tape leaving approx. 2 mm of the silicon surface exposed all around the seam
7. Fill the seam with Floorsil 2
8. Remove excessive Floorsil 2 with a spatula.
9. Smooth out the joint with your moist finger.
10. The material has to vulcanize at room temperature 12 hours

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Cleaning Recommendations
for AIRFLOOR® / AIRFLEX®



Airflex® / Airfloor® is an easy to clean silicone floor covering for aircrafts. It is usually installed in galleys, lavatories and entrance areas protecting the cabin floor from corrosion.

Airflex® / Airfloor® is resistant to typical contaminants such as cleaners, cosmetics, bodily fluids, organic acids, food and beverages.

CLEANING

- Regular cleaning
- Cleaners recommended by the airframe manufacturer are suitable (e.g. ABD0007).
- Water based solutions with corrosion inhibitors and low alkalinity are preferred.
- For general use “**Imi Top**” (fulfils the requirements of AM 1550B, Boeing D6-17487 and Douglas Aircraft Company CSD#1)
For sanitary area “**Into top**” (fulfils AMS 1550B)
- In case of normal soiling use cleaner in a low concentration.
- For heavy contamination, a higher concentration or undiluted solution may be necessary.
- To avoid streaks wipe with water after cleaning.
- For stain removal, brush with a soft plastic brush, wipe with water and dry.
- Pay heed to the cleaner manufacturer’s recommendations.
- Avoid pure abrasive solvents, alcohol, acetic acid and caustic chemicals.

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