



## Vinyl Floor Material

KSFM10, KSFM42, KSFM45, KSFM58 (cut mats)

### Description

Durable, 2-layer, static-dissipative, grey fleck vinyl matting with a conductive backing. Vinyl floor matting is suitable to use for electronics manufacturing applications that require the use of ESD footwear. The material is 2mm thick and the maximum roll size is 1500mm wide and 10 metres long. The smooth surface allows for easy cleaning. The matting can be re-used again and again. The material is abrasion-resistant and is suitable for chair castors. Installation is very simple and can be secured with double-sided tape. The matting complies to DIN EN 61340-51 standards. The product is also certified for RoHS and REACH regulations.



### Features

- Two layer vinyl flooring.
- Grey fleck in colour.
- Static dissipative surface.
- Conductive backing.
- Maximum roll size is 1500mm wide and 10 metres long.
- Complies with DIN EN 61340-5-1 standards.
- RoHS and REACH compliant.
- Insulation resistance according to DIN VDE 0100-410 (personnel safety).
- Abrasion resistant.
- Suitable for chair castors, depending on floor substrate.
- Elastic.
- Reusable.

### Cleaning

For optimum electrical performance, the floor matting must be cleaned regularly using an ESD-safe floor cleaner. We suggest using our Killstat floor cleaner for best cleaning results. This will maintain the original resistivity of the anti-static matting whilst extending its shelf-life.





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Property	Standard	Requirement	Typical values
Thickness Weight Size	EN428 EN430 EN426		2,0mm 3000g/m <sup>2</sup> Roll: length 10m Width 1,5m
Resistance to ground (RE)	EN61340-4-1	EN61340-5-1 RE ≤ 10 <sup>9</sup> Ω	10 <sup>6</sup> - 10 <sup>8</sup> Ω
Wearer overall resistance (RE System)	EN61340-4-5 ESD STM 97.1-1999	EN 61340-5-1 ≤ 35 MΩ (≤ 3,5 × 10 <sup>7</sup> Ω) (Recommended for primary means of grounding)	10 <sup>6</sup> - 10 <sup>8</sup> Ω
Walking test (Body voltage measurement)	EN61340-4-5 ESD STM 97.2-1999	Recommendation: Ideal case: Body voltage < 100V	Body voltage < 100V (depends on footwear)
Insulation resistance RI	DIN VDE 0100-610	> 5 × 10 <sup>4</sup> Ω (UN = 500 volts)	> 5 × 10 <sup>4</sup> Ω
Effect of chair castors	DIN68131/EN425		No effect, suitable if Type W according to DIN68131
Dimensional stability	DIN1817/EN 434	± 0,4%	< 0,2%
Residual indentation	DIN51955/EN 433	≤ 0,1mm	< 0,1mm
Colour fastness	ISO 105 B02	Note 6	≥ 7
Sound insulation	ISO 140-8		Ca. 2dB
Fire resistance	DIN4102	B2	B1
Abrasion resistance	EN660 Pt2		Group T ≤ 2,0mm <sup>3</sup>
Seam strength	EN 684		≥ 400 N/50mm
Thermal resistance			0,25W/m K





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### Instructions for Installing Vinyl Flooring

#### Preliminary Conditions:

The sub-floor must comply with DIN18299 and DIN18365 standards.

Maximum remaining humidity in the sub floor:

For mineral Anhydrite (AE) & Anhydrite tiles (AFE): <0.5%  
For cement: <3.5%  
For concrete and cement composite: <5%

For the best results install at room temperature between 18 and 20°C.

#### Sub-floor Preparation:

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#### Sub-floor Preparation:

- 1) Do not use conductive glue. For optimum adhesion, use a good quality acrylic dispersion glue/ equivalent and follow the supplier's instructions.
- 2) The supplied copper strips are used to electrically connect two adjacent floor areas. The wider strips should be positioned close to walls and pillars.
- 3) Position the copper strips every 5 meters perpendicular to the seam underneath the length seam.
- 4) Position the wide copper strips close to a wall or to a pillar for further connect to an electrical ground by an electrician. A separate ground connection is needed for every 25- 35 square meters.
- 5) Do not use the floor for 24 hours, after that time the floor is fully usable.
- 6) Seams between adjacent areas are obtained by cutting the overlapping edges.
- 7) For waterproof seams ask for a welding rod.

We can only guarantee the quality of the products we supply. WE cannot guarantee that the recommendations given in this document have been followed during the installation.





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### Maintenance Instructions:

#### Cleaning after installation:

- 1) Sweep the floor.
- 2) Wet mop with mild alkaline solution (I.E. Floor stripper, KS40GAL).
- 3) For machine cleaning, use red pads or medium hard brushes.
- 4) Make sure that no water or dirt remains on the floor.

#### Daily maintenance:

Wet mop using a high quality floor cleaner having neutral or mild alkaline properties and follow the instructions. For high traffic areas use ESD floor polish where necessary.

#### Polishing after installation:

Use ESD floor polish.

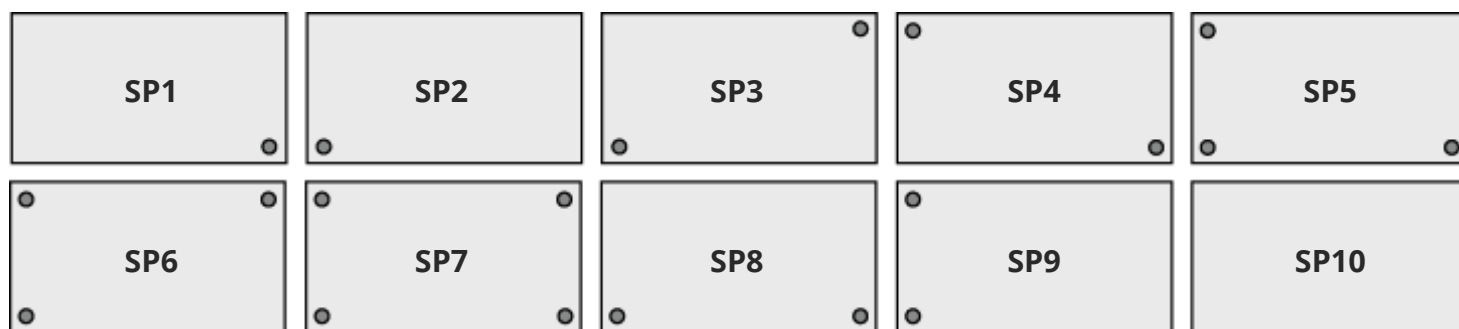
#### Stain removal:

Remove all stains immediately to avoid permanent marks on the floor.

#### Warning:

Stain removers may damage the floor. When in doubt try the stain remover one small hidden area. Use the chemical rather than mechanical means to remove persistent stains.

### Stud Position



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