



Homogeneous Conductive sheet vinyl

sphera[®]SD | EC



26 x 2 m

creating better environments

forbo

FLOORING SYSTEMS



sphera[®]SD | EC

Keep your environment under control

Sphera SD | EC is Forbo's homogeneous vinyl collection with conductive properties in sheet format. The collection is specifically designed to control static discharges and particles in the most sensitive environments, such as pharmaceutical, life sciences and healthcare facilities. Sphera SD | EC ensures the highest hygienic properties and provides permanent ESD control.

The Forbo Sphera SD | EC sheet collection offers a trustworthy solution delivering consistently high quality for the most demanding of controlled environments. Our technical flooring system will perform regardless of the conditions of the area.

Forbo's new purpose-built European manufacturing plant means that all the latest insights and technology have been used to create 'smart' and innovative solutions resulting in a premium collection.

The benefits of Sphera SD | EC

- Innovative product development and carefully controlled production processes ensure a solution with permanent conductive properties, which comply with all ESD standards.
- Sphera SD | EC will retain its optimal performance throughout the product's lifetime, regardless of the conditions of the environment, such as humidity levels.
- Low emissions and phthalate free manufacturing ensures Sphera SD | EC can contribute to a healthy indoor environment
- The unique SMART control top makes Sphera SD | EC resistant to stains and scratches, for a durable and hygienic solution.
- Thanks to the conductive backing, there is no need for conductive adhesive underneath the full sheet, only to affix the copper strip. This reduces installation costs and risks of installation errors.
- Sphera SD | EC is produced in a zero waste environment, ensuring efficient and sustainable manufacturing.



sphera® SD | EC



Sphera EC 450007

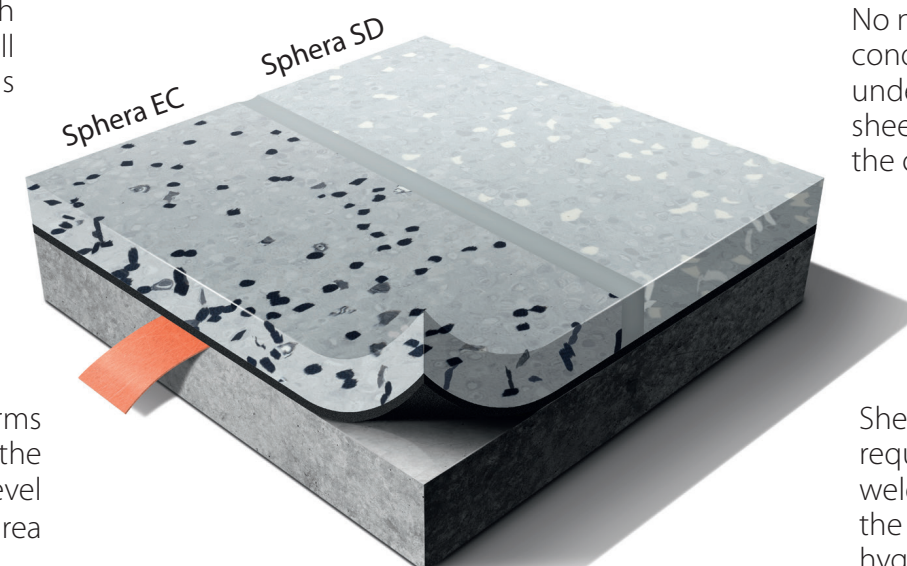
Forbo's homogeneous conductive sheet vinyl

Permanent dissipative properties which comply with all ESD standards

SMART control ⚡top resists stains and scratches

Extremely low emissions and outgassing

Performs regardless of the humidity level of the area

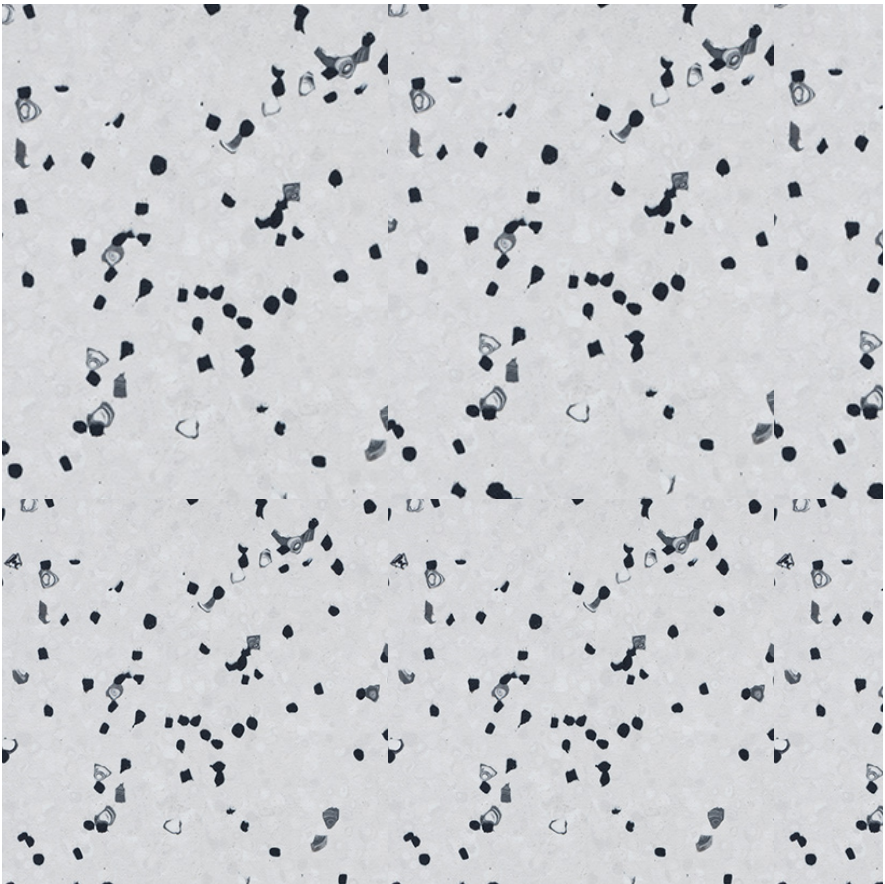


No need for conductive adhesive underneath the full sheet, only to affix the copper strip

Sheet format requires less welding, ensuring the highest hygienic properties

Produced in a zero waste environment

sphera® EC



EC 450000 | white
LRV 63%
S 1502-G50Y

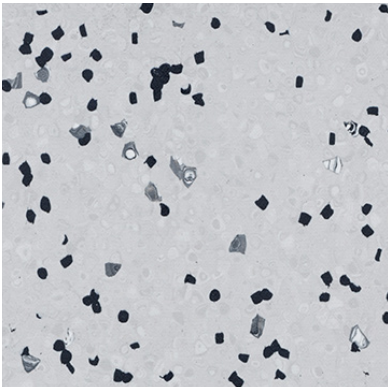


EC 450000 | white

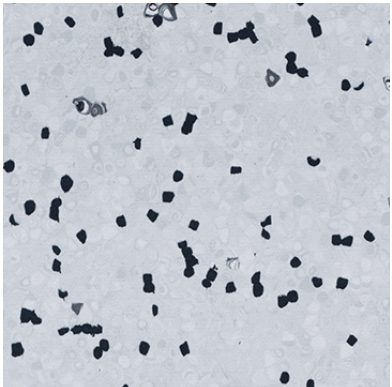
sphera® EC



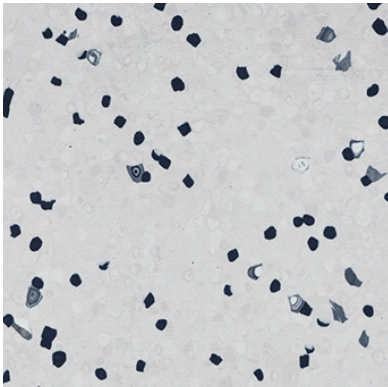
EC 450036 | water



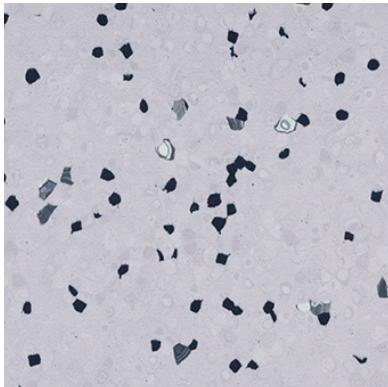
EC 450003 | light neutral grey
LRV 48%
NCS S 2500-N



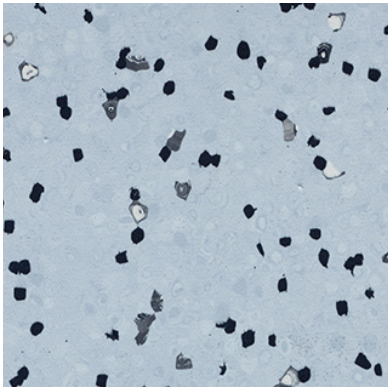
EC 450007 | grey sky
LRV 55%
NCS S 2002-B50G



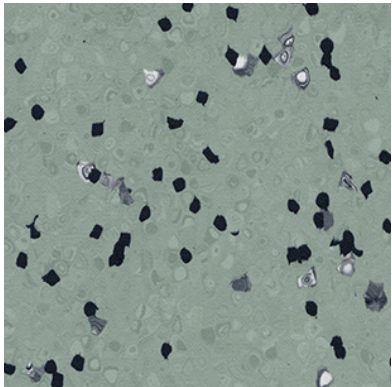
EC 450017 | ivory
LRV 56%
NCS S 1500-N



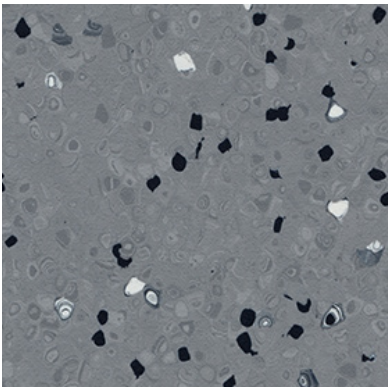
EC 450032 | soft lilac
LRV 50%
NCS S 2005-R50B



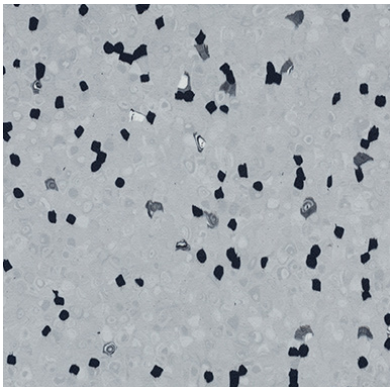
EC 450036 | water
LRV 54%
NCS S 1510-R90B



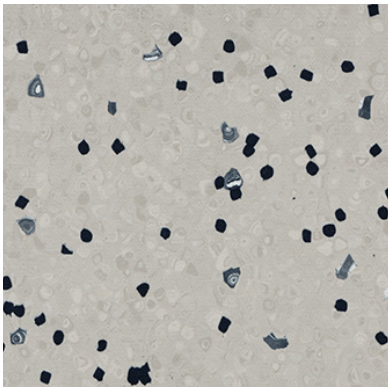
EC 450050 | olive
LRV 28%
NCS S 4010-G10Y



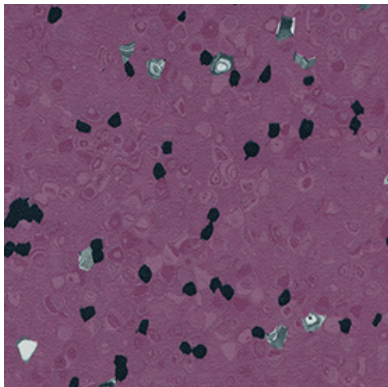
EC 450005 | dark neutral grey
LRV 23%
NCS S 4502-B



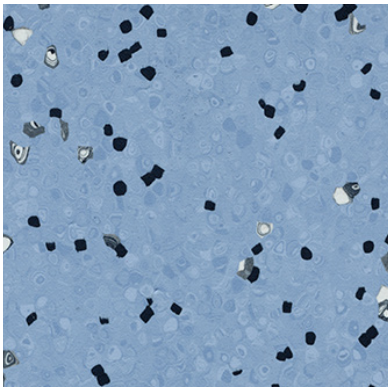
EC 450008 | silver grey
LRV 42%
NCS S 2502-B



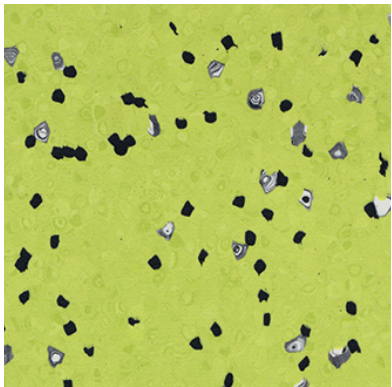
EC 450018 | mortar
LRV 46%
NCS S 2502-Y



EC 450034 | amethyst
LRV 13%
NCS S 5030-R30B



EC 450037 | China blue
LRV 35%
NCS S 2030-R90B



EC 450049 | yellow green
LRV 42%
NCS S 2050-G60Y

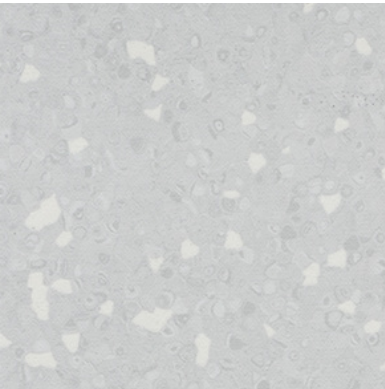
sphera®SD



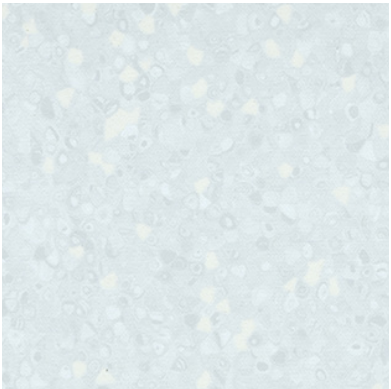
SD 550000 | white LRV 65%
NCS S 1502-G50Y



SD 550017 | ivory LRV 62%
NCS S 1500-N



SD 550003 | light neutral grey LRV 52%
NCS S 2500-N



SD 550007 | grey sky LRV 59%
NCS S 2002-B50G

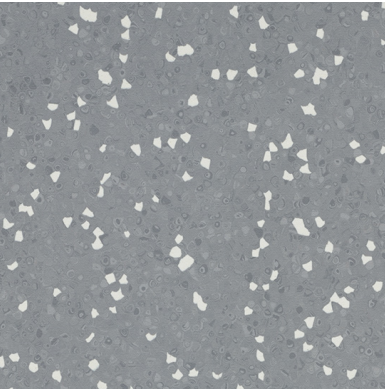


SD 550023 | sand LRV 51%
NCS S 2005-Y40R

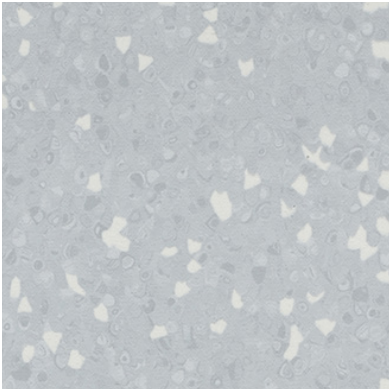
sphera®SD



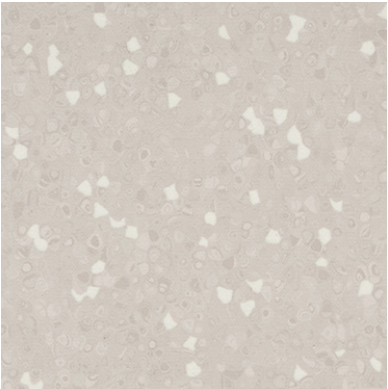
SD 550034 | amethyst SD 550032 | soft lilac



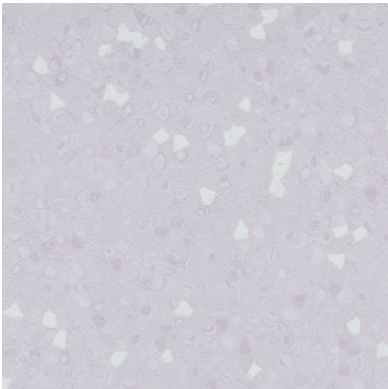
SD 550005 | dark neutral grey LRV 27%
NCS S 4502-B



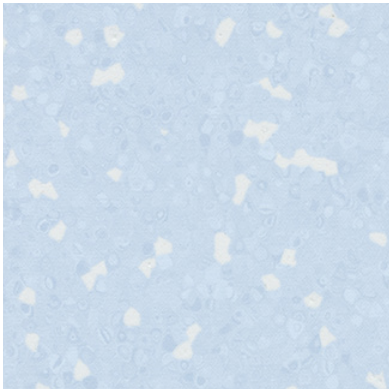
SD 550008 | silver grey LRV 47%
NCS S 2502-B



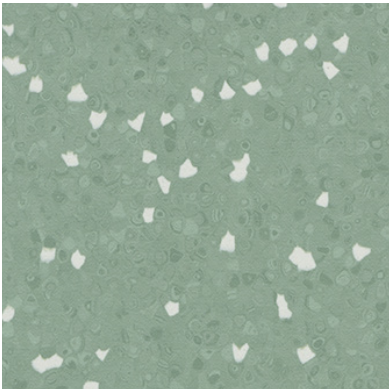
SD 550018 | mortar LRV 47%
NCS S 2502-Y



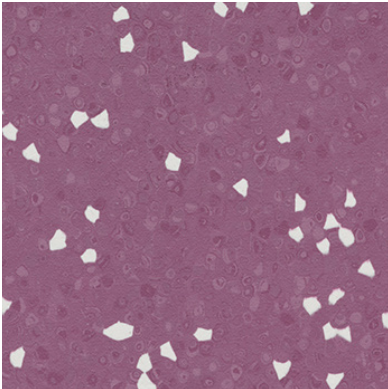
SD 550032 | soft lilac LRV 53%
NCS S 2005-R50B



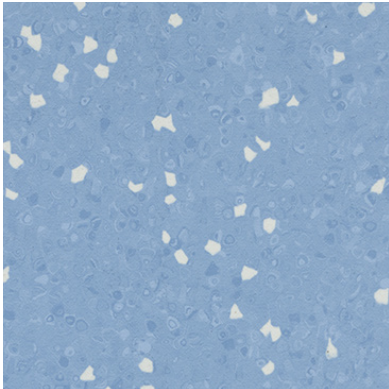
SD 550036 | water LRV 57%
NCS S 1510-R90B



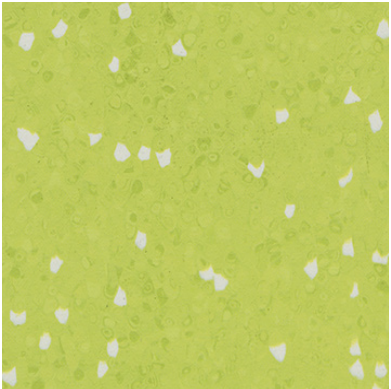
SD 550050 | olive LRV 31%
NCS S 4010-G10Y



SD 550034 | amethyst LRV 17%
NCS S 5030-R30B



SD 550037 | China blue LRV 38%
NCS S 2030-R90B



SD 550049 | yellow green LRV 46%
NCS S 2050-G60Y



Technical specifications

Sphera SD | EC meets the requirements of EN ISO 10581

		Sphera SD	Sphera EC
	Binder content	EN ISO 10581	type 1
	Total thickness	EN ISO 24346	2.0 mm
	Surface finish	SMART control ⚡ top	SMART control ⚡ top
	Collection size	14	13
	Commercial use	EN ISO 10874	34 very heavy
	Light industrial use	EN ISO 10874	43 heavy
	Roll width	EN ISO 24341	2 m
	Roll length	EN ISO 24341	≤ 27 m ~ 26 m
	Total weight	EN ISO 23997	2.9 kg/m²
	Electrostatics (general requirements)	IEC 61340-5-1	Compliant
	Electrical resistance	IEC 61340-4-1 ESD STM7.1	$1 \times 10^4 \leq R \leq 10^6 \Omega$
	Electrical resistance in combination with ESD control footwear	IEC 61340-4-5 ESD STM97.1	$R \leq 1 \times 10^6 \Omega$
	Body voltage generation, in combination with ESD control footwear <i>Typical value</i>	IEC 61340-4-5 ESD STM97.2	$< 50 \text{ V}$ $\sim 0 \text{ V} < > 30 \text{ V}$
	Electrical insulation to ground	DIN VDE 0100	≥ 50 kΩ
	Dimensional stability <i>Typical value</i>	EN ISO 23999	≤ 0.4 % ~ 0.2 %
	Residual indentation <i>Typical value</i>	EN ISO 24343-1	≤ 0.10 mm ~ 0.03 mm
	Castor chair continuous use	ISO 4918	pass
	Light fastness	EN ISO 105-B02	≥ 7
	Flexibility	EN ISO 24344	Ø 10 mm
	Resistance to chemicals	EN ISO 26987	very good
	Slip resistance	DIN 51130	R9
	Bacteria resistance	EN 846	Does not support growth
	Indoor Air Emissions: TVOC after 28 days	ISO 16516	≤ 0.01 mg/m³
	Creating better environments		
	Renewable electricity	Sphera SD is manufactured using 100% electricity from renewable sources	Sphera EC is manufactured using 100% electricity from renewable sources
		EN 14041 CE 0200304-DuP-003	EN 14041 CE 3200305-DuP-003
	Sphera SD EC meet the requirements of EN 14041		
	Reaction to fire	EN 13501-1	B _s -s1,G, NCS
	Slip resistance	EN 13893	μ ≥ 0.30
	Thermal conductivity	EN 12524	0.25 W/m·K
	Body voltage	EN 1815	≤ 2 kV
	Electrical behaviour - static dissipative	EN 1081	≤ 1 x 10 ⁹ Ω
	Electrical behaviour - conductive	EN 1081	n.a.

All Forbo Flooring Systems' sales organisations worldwide have a certified Quality Management System in accordance with ISO 9001.
All Forbo Flooring Systems' manufacturing operations have a certified Environmental Management System in accordance with ISO 14001.
The Life Cycle Assessment (LCA) of Forbo Flooring Systems' products is documented in individual Environmental Product Declarations (EPD's) which can be found on all of our websites.



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FLOORING SYSTEMS

creating better environments