

Flowcrete
for the world at your feet



INDUSTRIAL FLOORING

- ▶ Durable workhorse surfaces suited to use in a wide range of demanding industrial plants and process environments.

www.flowcreteasia.com

Industrial Flooring Technical Profile



Flowcrete's Industrial Flooring range has been developed to deliver the ultimate in durability and resistance for hard-wearing surfaces that stand the test of time.

Reliable formulations stand up to heavy forklift, pallet truck and pedestrian traffic, whilst boasting impressive resistance levels against aggressive chemicals, cleaning agents and spillages across a number of production areas, including those subject to extreme temperature change or chemical attack.

Manufactured at our ISO 9001 certified Plant in Malaysia, Flowcrete's Industrial flooring range offers everything from textured finishes for slip resistance to UV stability to maintain colour vibrancy. Some ranges like our Flowshield range are even available in an antistatic grade for the protection of sensitive electronic equipment, resulting in a range of flooring solutions perfect for a variety of heavy duty industrial environments. To broaden our offerings, other ranges like Flowfresh is recognised by HACCP International and Green Label Singapore, makes the choice flooring for the pharmaceutical industry, clean rooms, and food processing plants in the region.



Application Suitability



Manufacturing



Automotive



Electronic



Pharmaceutical



Aerospace



Food & Drink Processing

COLOUR CHART STANDARD COLOURS

Flowcoat HS / CR, Flowshield SL / CR, Flowshield SK / SK1000



Sand Chilli Red Steel Blue Mid Blue Light Green Dark Green



Sage Grey Mist Grey Steel Grey Charcoal

Flowcoat HTS



Light Green Dark Green Mid Blue Steel Blue Chilli Red Light Grey Steel Grey Charcoal

Flowchem VE GL



Green Charcoal Steel Grey Light Grey

Flowshield Quartz



Off White Pastel Green Cream Light Blue Goosewing Grey

Flowfresh SRQ



Light Grey Mid Grey Dark Grey Brown Yellow Red Light Blue Green

Flowfresh MF / SL



Warm Buff Clay Coral Red Shamrock Green Ash Grey Pewter Grey

Flowfresh RT / SR



Warm Buff Clay Coral Red Shamrock Green Ash Grey Pewter Grey

Flowseal EPW



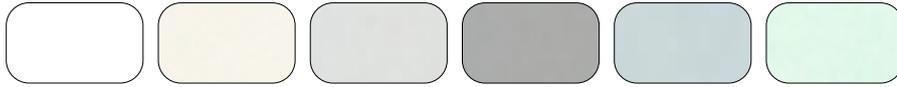
Sand Tile Red Steel Blue Mid Blue Light Green Dark Green



Sage Grey Mist Grey Steel Grey Charcoal

COLOUR CHART STANDARD COLOURS

Flowseal EPW Wall



White Oyster Silver Grey Dolphin Grey Sky Blue Pale Green

Flowfresh ESD SL / MF



Warm Buff Coral Red Clay Shamrock Green Pewter Grey

Flowseal Conductive/Dissipative



Sand Tile Red Steel Blue Mid Blue Light Green Dark Green Sage Grey Mist Grey Steel Grey

Flowshield ESD Conductive/Dissipative



Sand Chilli Red Steel Blue Mid Blue Light Green Dark Green Sage Grey Mist Grey Steel Grey

Flowshield ESD BVG



Ivory Metal Grey Light Grey Carbon Grey Mint Green Olive Green

**The applied colours may differ slightly from the examples shown above. Contact our customer services for a true colour sample or a special colour match.







HACCP International Certified Hygienic Flooring

Flowcrete's HACCP International certified flooring materials are engineered to withstand the rigorous demands of the food and beverage industry.

Floors in food processing environments face heavy traffic, equipment impact and constant exposure to oils, chemicals and corrosive ingredients.

Resin flooring systems provide a seamless, non-porous surface that prevents cracks and crevices where bacteria and mould could grow. This ensures a hygienic, easy-to-clean environment that complies fully with strict food safety standards.

With HACCP certification, Flowcrete floors support contamination control, product integrity and compliance with international hygiene regulations.



Flowfresh MF (3–4mm)



Flowfresh MF is a seamless, heavy duty self-smoothing polyurethane cement-based flooring system.

Provides a hygienic floor finish for dry or semi-wet F&B processing areas.



4-tick SGBC Leader-rated for excellent environmental sustainability.



Certified as food-safe for use in wet and dry food handling areas.



Protects against a majority of acids used in manufacturing processes.



A hard-wearing & abrasion resistant finish to protect the substrate below.

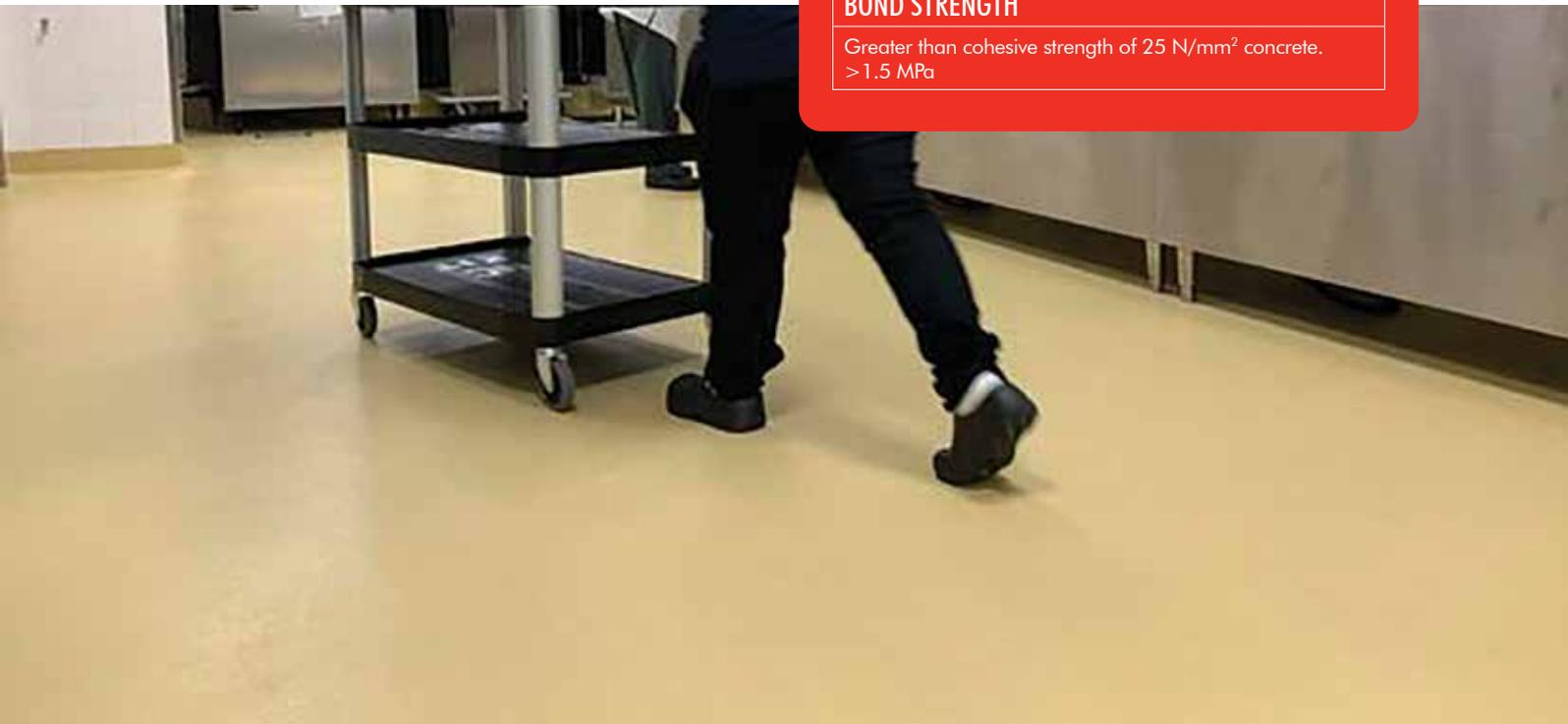


Very good thermal shock properties and resistant to extreme temperatures.

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fl} - s1
SLIP RESISTANCE**	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
IMPACT RESISTANCE	
EN ISO 6272	15Nm
WATER PERMEABILITY	
Nil – Karsten test (impermeable)	
VAPOUR PERMEABILITY	
ASTM E96:90	5g/m ² /24hrs (at 4mm thick)
TEMPERATURE RESISTANCE	
From -5°C to 70°C (at 3mm)	From -15°C to 90°C (at 4mm)
CHEMICAL RESISTANCE	
Contact Technical Department Excellent resistance to sugars and most acids (organic and inorganic)	
ABRASION RESISTANCE	
Taber Abrader (1 kg load using CS17 wheels)	0.1g loss per 1000 cycles
COMPRESSIVE STRENGTH	
EN 13892-2	>50 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	>20 N/mm ²
TENSILE STRENGTH	
BS 6319	7 N/mm ²
COEFFICIENT OF THERMAL EXPANSION	
ASTM C531	5.70 x 10 ⁻⁵ °C ⁻¹
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm ² concrete. >1.5 MPa	

For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.



Flowfresh RT

(RT: 6–9mm)



A heavy-duty, hygienic PU screed providing a highly durable, lightly textured finish with excellent chemical and temperature resistance.

Provides a hygienic floor finish for heavy duty wet processing areas in F&B facilities.



4-tick SGBC Leader-rated for excellent environmental sustainability.



Resistant to extreme temperatures, from -45°C to 120°C (at 9mm).



Lightly textured finish provides a safe environment for workers.



A hard-wearing & abrasion resistant finish to protect the substrate below.

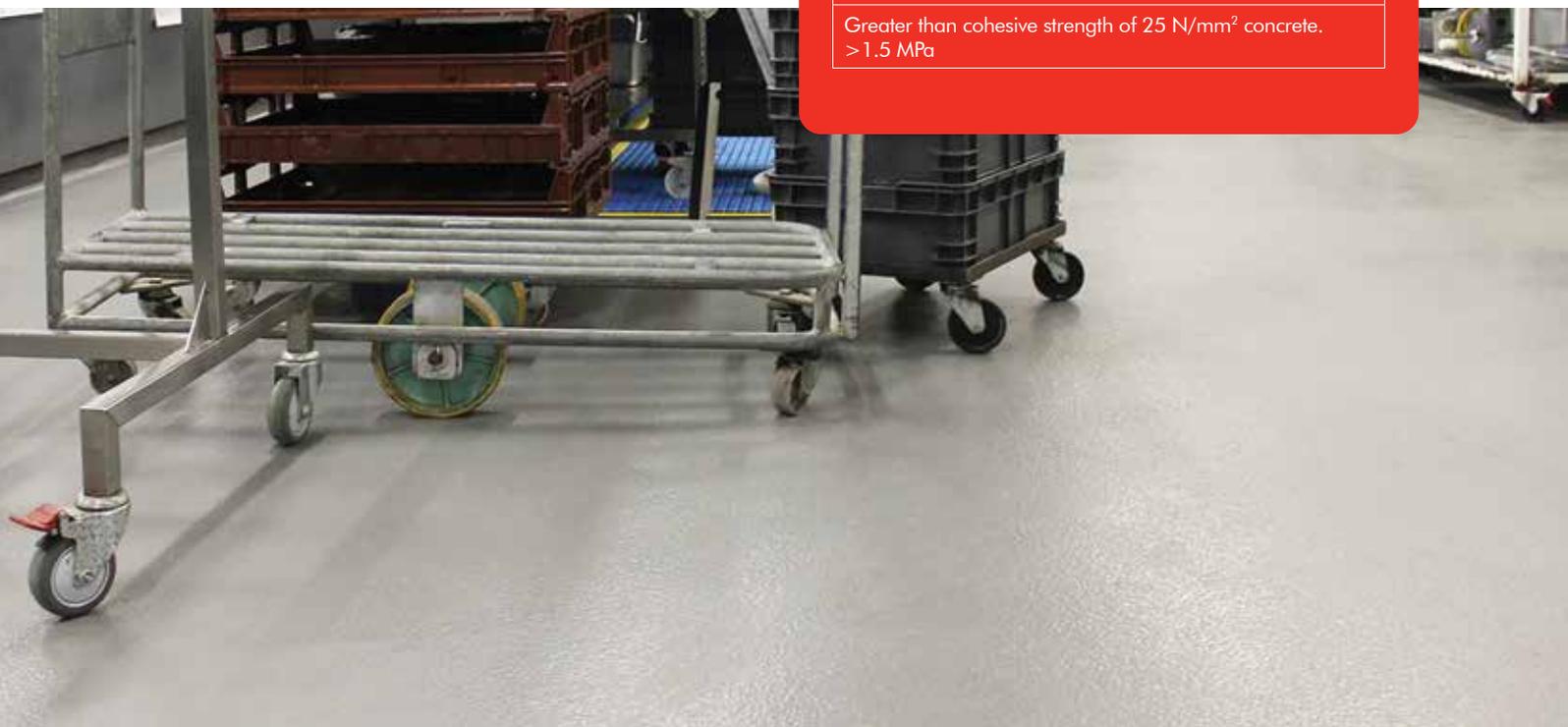


HACCP International Certified.

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fl} - s1
SLIP RESISTANCE**	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry>40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
IMPACT RESISTANCE	
EN ISO 6272	20Nm
WATER PERMEABILITY	
Nil – Karsten test (impermeable)	
VAPOUR PERMEABILITY	
ASTM E96:90	3g/m ² /24hrs (at 9mm thick)
TEMPERATURE RESISTANCE	
From -25°C to 100°C (at 6mm)	From -45°C to 120°C (at 9mm)
CHEMICAL RESISTANCE	
Contact Technical Department Excellent resistance to sugars and most acids (organic and inorganic)	
ABRASION RESISTANCE	
Taber Abrader (1 kg load using CS17 wheels)	0.12g loss per 1000 cycles
COMPRESSIVE STRENGTH	
EN 13892-2	>50 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	>20 N/mm ²
TENSILE STRENGTH	
BS 6319	>10 N/mm ²
COEFFICIENT OF THERMAL EXPANSION	
ASTM C531	3.74 x 10 ⁻⁵ °C ⁻¹
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm ² concrete. >1.5 MPa	

For a full Technical Profile, contact your local Technical Department.



Flowfresh SR (3–4mm)



A heavy duty, slip resistant, seamless polyurethane resin flooring system.

Provides a hygienic floor finish for wet processing areas in F&B facilities.



Very good thermal shock properties and resistant to extreme temperatures.



Textured finish provides a safe environment for workers.



A hard-wearing & abrasion resistant finish to protect the substrate below.



Protects against a majority of acids used in manufacturing processes.



HACCP International Certified.

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fl} - s1
SLIP RESISTANCE**	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
IMPACT RESISTANCE	
EN ISO 6272	15Nm
WATER PERMEABILITY	
Nil – Karsten test (impermeable)	
VAPOUR PERMEABILITY	
ASTM E96:90	5g/m ² /24hrs (at 4mm thick)
TEMPERATURE RESISTANCE	
From -15°C to 90°C	
CHEMICAL RESISTANCE	
Contact Technical Department Excellent resistance to sugars and most acids (organic and inorganic)	
ABRASION RESISTANCE	
Taber Abrader (1 kg load using CS17 wheels)	0.1g loss per 1000 cycles
COMPRESSIVE STRENGTH	
EN 13892-2	>50 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	>20 N/mm ²
TENSILE STRENGTH	
BS 6319	7 N/mm ²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm ² concrete. >1.5 MPa	

For a full Technical Profile, contact your local Technical Department.



Flowfresh SRQ



A decorative polyurethane resin floor screed system with an attractive positively textured, coloured quartz finish.

Provides a hygienic floor finish for wet processing areas in F&B facilities.



HACCP International Certified.



A decorative, speckled floor finish that is available in a range of colours.



Textured finish provides a safe environment for workers.



A hard-wearing & abrasion resistant finish to protect the substrate below.



Protects against a majority of acids used in manufacturing processes.

Technical Profile

FIRE RESISTANCE

EN 13501-1 $B_{fl} - s1$

SLIP RESISTANCE**

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

IMPACT RESISTANCE

EN ISO 6272 15Nm

WATER PERMEABILITY

Nil – Karsten test (impermeable)

VAPOUR PERMEABILITY

ASTM E96:90 5g/m²/24hrs (at 4mm thick)

TEMPERATURE RESISTANCE

90°C (continues exposure), 110°C (intermittent spills)[†]
[†] Applicable for thickness ≥ 6mm

CHEMICAL RESISTANCE

Contact Technical Department
 Excellent resistance to sugars and most acids (organic and inorganic)

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS17 wheels)

0.12g loss per 1000 cycles

COMPRESSIVE STRENGTH

EN 13892-2 > 50 N/mm²

FLEXURAL STRENGTH

EN 13892-2 > 20 N/mm²

TENSILE STRENGTH

BS 6319 > 10 N/mm²

TOXICITY (WHEN CURED)

Taint free to sensitive foodstuffs.

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete.
 > 1.5 MPa



Flowseal EPW

(Floor Sealer)

A pigmented, water-based, epoxy floor sealer with a satin finish that provides a seamless, easy to clean, non-dusting environment.

Suitable for light industrial areas, storerooms and areas of pedestrian traffic.



The seamless finish allows the system to be cleaned easily.



Solvent free, low in VOCs and environmentally friendly.



Vapour permeable and can be applied to damp substrates.



Seals dusty concrete providing a cleaner working environment.

Technical Profile

FIRE RESISTANCE

EN 13501-1

B_{fl}-s1

SLIP RESISTANCE

BS 7976-2
(typical values for 4-S
rubber slider)

Dry >40, Wet depends on
specification (in
accordance with HSE and
UKSRG guidelines)

TEMPERATURE RESISTANCE

Tolerant up to 60°C

VAPOUR PERMEABILITY

ASTM:E96:90

20 g / m² / mm / 24 hr

SURFACE HARDNESS

Koenig Hardness Test

182 secs.

CHEMICAL RESISTANCE

Contact Technical Department

For a full Technical Profile, contact your local Technical Department.



Flowcoat HS

(Thickness dependent on specification)

A solvent free, high performance epoxy coating which is suitable for factories, warehouses, plants and warehouses.

Can be used as a hard wearing, coloured floor coating for industrial facilities.



Protects against a range of chemicals used in manufacturing processes.



Solvent free, low in VOCs and environmentally friendly.



The seamless and gloss finish allows the system to be cleaned easily.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE

EN 13501-1

B_{fl} - s1

SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

THERMAL RESISTANCE

Tolerant up to 60°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

CHEMICAL RESISTANCE

Contact technical department

SURFACE HARDNESS

Koenig Hardness Test

180 secs.

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS10 wheels)

80 mg loss per 1000 cycles

COMPRESSIVE STRENGTH

BS 6319

> 60 N/mm²

FLEXURAL STRENGTH

BS 6319

> 40 N/mm²

TENSILE STRENGTH

BS 6319

> 15 N/mm²

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete.
> 1.5 MPa

For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.



Flowcoat CR

(Thickness dependent on specification)

A solvent free, chemical resistant epoxy coating system designed for use in processing & storage areas subject to chemical spillages.

Graded aggregate can be used to create a slip resistant profile if required.



Protects against a range of chemicals used in manufacturing processes.



Solvent free, low in VOCs and environmentally friendly.



The seamless and gloss finish allows the system to be cleaned easily.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fl} - s1
SLIP RESISTANCE	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
THERMAL RESISTANCE	
Tolerant up to 60°C	
WATER PERMEABILITY	
Nil – Karsten test (impermeable)	
CHEMICAL RESISTANCE	
Contact technical department	
SURFACE HARDNESS	
Koenig Hardness Test	180 secs.
ABRASION RESISTANCE	
Taber Abrader (1 kg load using CS10 wheels)	80 mg loss per 1000 cycles
COMPRESSIVE STRENGTH	
BS 6319	> 60 N/mm ²
FLEXURAL STRENGTH	
BS 6319	> 40 N/mm ²
TENSILE STRENGTH	
BS 6319	> 15 N/mm ²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm ² concrete. > 1.5 MPa	

For a full Technical Profile, contact your local Technical Department.



Flowcoat HTS

(Thickness dependent on specification)

A high performance, UV light stable, pigmented hybrid PU coating system with very high abrasion resistance.

Designed for environments with heavy traffic where abrasion resistance is essential.



Provides a high strength coating for high traffic isles and warehouses.



Protects against a range of chemicals used in processing areas.



100% UV light stable and does not yellow over time.



The seamless and semi-gloss finish allows the system to be cleaned easily.



Improved slip resistance compared to smooth coating systems.

Technical Profile

FIRE RESISTANCE

EN 13501-1

B_{fl} - s1

SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

THERMAL RESISTANCE

Tolerant up to 70°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

CHEMICAL RESISTANCE

Contact technical department

SURFACE HARDNESS

Koenig Hardness Test

180 secs.

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS10 wheels)

40 mg loss per 1000 cycles

BS 8204-2

Grade AR2 Medium Duty Industrial and Commercial

TENSILE STRENGTH

BS 6319

> 15 N/mm²

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete.
> 1.5 MPa

For a full Technical Profile, contact your local Technical Department.



Flowshield SL

(2–3mm)



A high-gloss, self-smoothing epoxy floor finish that is compliant with CSM® (Cleanroom Suitable Materials) requirements.

Typical uses include cleanrooms, laboratories, warehouses and storage areas.



Qualified under CSM test parameters for the 2 categories shown below.



Meets the requirements set out by the USDA and FDA.



The seamless and high-gloss finish allows the system to be cleaned easily.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fl} - s1
SLIP RESISTANCE**	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
THERMAL RESISTANCE	
Tolerant up to 60°C	
WATER PERMEABILITY	
Nil – Karsten test (impermeable)	
ABRASION RESISTANCE	
Taber Abrader (1 kg load using CS17 wheels)	90 mg loss per 1000 cycles
COMPRESSIVE STRENGTH	
EN 13892-2	> 50 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	> 30 N/mm ²
TENSILE STRENGTH	
BS 6319	25 N/mm ²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm ² concrete. > 1.5 MPa	
BIOLOGICAL RESISTANCE	
ISO 846	Excellent
TVOC (AT 23°C)	
ISO 14644-8	ISO-ACC _m Class -8.7
CLEANROOM AIR CLEANLINESS	
ISO 14644-1	ISO-Class 4

For a full Technical Profile, contact your local Technical Department.



Flowshield CR

(2–3mm)



A highly chemical resistant, self-smoothing epoxy resin floor finish suitable for dry process areas subject to chemical spillages.

Typical uses include chemical storage areas, laboratories, warehouses and printing plants.



Protects against a range of chemicals used in manufacturing processes.



Meets the requirements set out by the USDA and FDA.



The seamless and high-gloss finish allows the system to be cleaned easily.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE

EN 13501-1

B_{fl} - s1

SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

THERMAL RESISTANCE

Tolerant up to 60°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

CHEMICAL RESISTANCE

Contact technical department

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS17 wheels)

90 mg loss per 1000 cycles

COMPRESSIVE STRENGTH

BS 6319

> 60 N/mm²

FLEXURAL STRENGTH

BS 6319

> 40 N/mm²

TENSILE STRENGTH

BS 6319

> 25 N/mm²

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete. > 1.5 MPa

TOXICITY

Taint free to sensitive foodstuffs

For a full Technical Profile, contact your local Technical Department.



Flowshield SK/SK1000

A solvent free, self-smoothing epoxy floor system with excellent resistance to Skydrol® and hydraulic fluids.

Typical uses are aircraft hangers, aircraft parking areas and workshops.



Resistant to typical chemicals found in aircraft service environments.



Solvent free, low in VOCs and environmentally friendly.



The seamless and gloss finish allows the system to be cleaned easily.



Hard-wearing & abrasion resistant suitable for aircraft trafficked areas.

Technical Profile

FIRE RESISTANCE

EN 13501-1 B_{fl}-s1

SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider) Dry >40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

THERMAL RESISTANCE

Tolerant up to 60°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

SURFACE HARDNESS

Koenig Hardness Test 180 seconds

CHEMICAL RESISTANCE

Contact technical department

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS17 wheels) 90 mg loss per 1000 cycles

COMPRESSIVE STRENGTH

EN 13892-2 >50 N/mm²

FLEXURAL STRENGTH

EN 13892-2 >40 N/mm²

TENSILE STRENGTH

BS6319 >25 N/mm²

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete. >1.5 MPa

TOXICITY

Taint free to sensitive foodstuffs



Flowshield Quartz

(2–3mm)

A decorative, hard wearing, self smoothing epoxy resin floor system.

Flowshield Quartz delivers an attractive aesthetic alongside superior performance benefits in a single application.



Speckled finish disguises visible surface scratches.



A decorative, speckled floor finish that is available in a range of colours.



Solvent free, low in VOCs and environmentally friendly.



Protects against a range of chemicals used in processing areas.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE

EN 13501-1 E_{fl} - s1

SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

THERMAL RESISTANCE

Tolerant up to 60°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

VAPOUR PERMEABILITY

4 gms/m²/mm/24 hours

SURFACE HARDNESS

Koenig Hardness Test 180 seconds

CHEMICAL RESISTANCE

Contact technical department

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS17 wheels)

90 mg loss per 1000 cycles

COMPRESSIVE STRENGTH

BS 6319 > 55 N/mm²

FLEXURAL STRENGTH

BS 6319 > 20 N/mm²

TENSILE STRENGTH

BS 6319 > 10 N/mm²

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete. > 1.5 MPa

TOXICITY

Taint free to sensitive foodstuffs



Flowtex PT

(4–6mm)



032-089-4132
Environmentally Preferred Paints &
Surface Coatings

A power trowelled, heavy duty, epoxy screed suitable to receive a variety of chemical resistant and hard-wearing floor finishes.

A heavy duty underlayment for areas subject to high traffic, impact and chemical spills.



Offers excellent protection against dropped items and heavy loads.



Protects against a range of chemicals used in manufacturing processes.



Solvent free, low in VOCs and environmentally friendly.



Power trowel application produces an extremely dense, flat screed finish.



Highly effective moisture dissipating system (based on 5mm thickness).

Technical Profile

IMPACT RESISTANCE

ISO6272	1kg weight > 1.8m 2kg weight > 1.5m
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THERMAL RESISTANCE

Tolerant up to 60°C

CHEMICAL RESISTANCE

Contact technical department

COMPRESSIVE STRENGTH

EN 13892-2	>60 N/mm ²
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FLEXURAL STRENGTH

EN 13892-2	>20 N/mm ²
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TENSILE STRENGTH

BS 6319	10 N/mm ²
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BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete.
>1.5 MPa

For a full Technical Profile, contact your local Technical Department.



Flowtex AOS

A 5mm anti-osmosis, heavy duty epoxy screed underlayment suitable to receive variety of resin floor toppings.

Allows installation of moisture sensitive floor finishes onto concrete and cementitious screeds.



Resistant to osmotic pressure caused by substrates with high moisture content.



Solvent free, low in VOCs and environmentally friendly.



Offers excellent protection against dropped items and heavy loads.



Application produces an extremely dense, flat screed finish.



The seamless finish allows the system to be cleaned easily.

Technical Profile

IMPACT RESISTANCE

ISO6272	1 kg weight > 1.8m 2kg weight > 1.5m
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THERMAL RESISTANCE

Tolerant up to 60°C

CHEMICAL RESISTANCE

Contact technical department

COMPRESSIVE STRENGTH

BS 6319	>50 N/mm ²
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FLEXURAL STRENGTH

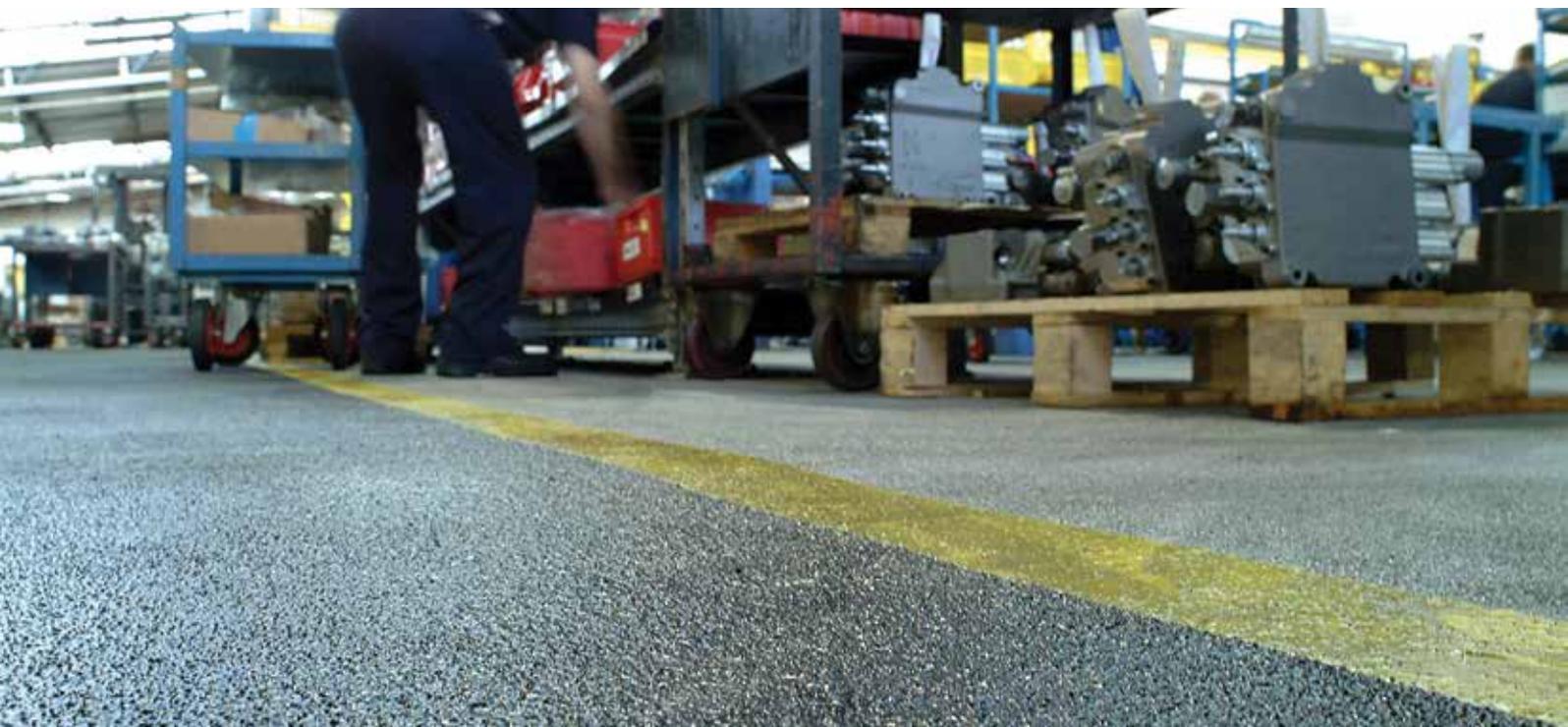
BS 6319	25 N/mm ²
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TENSILE STRENGTH

BS 6319	10 N/mm ²
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BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete.
>1.5 MPa



Flowcem

Flowcem is a three-component, technically advanced self-smoothing, epoxy-cement composite. It is applied to function as a temporary moisture barrier (min 2mm thickness) under subsequent flooring finishes.

As a temporary moisture barrier to be overlaid with resin flooring finishes on substrates with high residual moisture content.



Tolerates up to 100% relative humidity in concrete or a sand-cement screed.



Chemically & mechanically bonds to concrete forming a monolithic structure.



Self-smoothing consistency allows it to be applied easily and quickly.



Low odour during application for greater client satisfaction.

Technical Profile

THERMAL RESISTANCE

Tolerant up to 60°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

COMPRESSIVE STRENGTH

BS 6319 >40 N/mm²

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete.
>1.5 MPa



Flowchem VE GL

(1.5–3mm)

A roller or spray applied vinyl ester resin based fiberglass-reinforced lining system offering excellent chemical and thermal resistance.

Flowchem VE GL is used to protect concrete and steel structures from various mechanical stresses.



Resistant to extreme temperatures of up to 165°C.



Protects against a wide range of aggressive chemicals.



Fast track cure times reduce construction program times.



Extremely hard-wearing & abrasion resistant suitable for heavy traffic.



Tailored specification to meet specific chemical & temperature requirements.

Technical Profile

TEMPERATURE RESISTANCE

Tolerant up to 165°C

SLIP RESISTANCE

BS 7976-2
(typical values for 4-S
rubber slider)

Dry >40, Wet depends
on specification (in
accordance with HSE
and UKSRG guidelines)

BARCOL HARDNESS

ASTM 2583

>30

E-MODULUS

ASTM D-695

3.1 GPa

VOLUME SHRINKAGE

ASTM D2566

7.5–9.8%

FLEXURAL STRENGTH

ASTM D-790

117–150 MPa*

TENSILE STRENGTH

ASTM D-638

75–96 MPa*

For a full Technical Profile, contact your local Technical Department.



Flowseal EPW Wall (0.2mm)



A pigmented, water-based epoxy, hygienic wall sealer that is compliant to CSM® (Cleanroom Suitable Materials) requirements.

Suitable for walls in F&B processing plants, pharmaceutical cleanrooms, and hospitals.

-  Qualified under CSM test parameters for outgassing VOC behaviour.
-  The seamless finish allows the surface to be cleaned easily.
-  Low odour during application for greater client satisfaction.
-  Vapour permeable and can be applied to damp substrates.
-  Brightens and enhances the appearance of working environments.

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fi} - s1
THERMAL RESISTANCE	
Tolerant up to 60°C	
VAPOUR PERMEABILITY	
ASTM: E96:90	20g/m ² /mm/24hr
CHEMICAL RESISTANCE	
Contact technical department	
TVOC (AT 23°C)	
ISO 14644-8	ISO-ACC _m Class >-9.6

For a full Technical Profile, contact your local Technical Department.





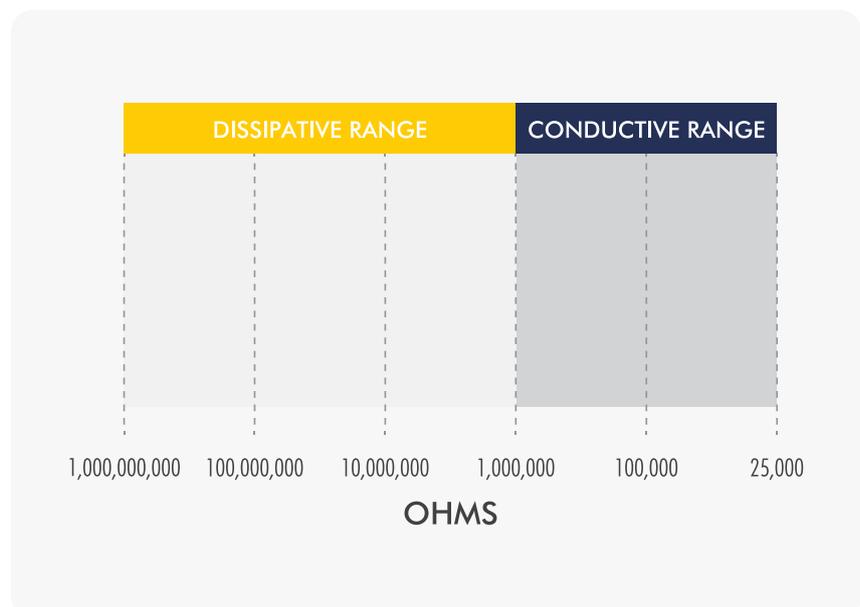
What is ESD Flooring?

Electrostatic Discharge (ESD) refers to the rapid, spontaneous transfer of electrostatic charge induced by a high electrostatic field.

Charge can build-up while simply walking across the floor of a processing environment.

Without flooring materials equipped with adequate protection, that charge can be passed to sensitive electronic components, causing irreversible damage.

Systems are categorised as Conductive or Dissipative, determined using various testing methods.



Flowfresh ESD SL

(2mm)

An antistatic, chemical resistant, polyurethane resin floor system with a smooth matt coloured finish.

Provides a hygienic, antistatic floor finish with exceptional chemical resistance.



Meets the BS 2050 specification for electrical resistance



Protects against a majority of acids used in manufacturing processes



A hard-wearing & abrasion resistant finish to protect the substrate below



Low odour during application and non-tainting once cured

Technical Profile*

FIRE RESISTANCE

EN 13501-1 $B_{fl} - s1$

SLIP RESISTANCE**

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

IMPACT RESISTANCE

BS8204 Part 1 Cat: A (<0.5mm) ISO6272

1kg weight > 1.8m
2kg weight > 1.5m

WATER PERMEABILITY

Nil – Karsten test (impermeable)

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS17 wheels)

0.1g loss per 1000 cycles

COMPRESSIVE STRENGTH

EN 13892-2 > 50 N/mm²

FLEXURAL STRENGTH

EN 13892-2 20 N/mm²

TENSILE STRENGTH

BS 6319 > 10 N/mm²

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete. > 1.5 MPa

TOXICITY (WHEN CURED)

Taint free to sensitive foodstuffs

ELECTRICAL RESISTANCE

BS 2050 $5 \times 10^4 - 1 \times 10^8$ Ohms

COEFFICIENT OF THERMAL EXPANSION

ASTM C531 $5.70 \times 10^{-5} \text{ }^\circ\text{C}^{-1}$



Flowfresh ESD MF

(3mm)

An antistatic, chemical resistant, polyurethane resin floor system with a smooth matt coloured finish.

Provides a hygienic, antistatic floor finish with exceptional chemical resistance.



Meets the BS 2050 specification for electrical resistance



Protects against a majority of acids used in manufacturing processes



A hard-wearing & abrasion resistant finish to protect the substrate below



Low odour during application and non-tainting once cured

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fl} - s1
SLIP RESISTANCE	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
IMPACT RESISTANCE	
EN ISO 6272	15Nm
WATER PERMEABILITY	Nil – Karsten test (impermeable)
VAPOUR PERMEABILITY	ASTM E96:90 5g/m ² /24hrs
ABRASION RESISTANCE	
Taber Abrader (1 kg load using CS17 wheels)	0.1g loss per 1000 cycles
COMPRESSIVE STRENGTH	
EN 13892-2	>50 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	20 N/mm ²
TENSILE STRENGTH	
BS 6319	12 N/mm ²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm ² concrete. > 1.5 MPa	
TOXICITY (WHEN CURED)	
Taint free to sensitive foodstuffs	
ELECTRICAL RESISTANCE	
BS 2050	5 x 10 ⁴ – 1 x 10 ⁸ Ohms
COEFFICIENT OF THERMAL EXPANSION	
ASTM C531	5.70 x 10 ⁻⁵ °C ⁻¹



Flowseal ESD Conductive

A conductive, water-based epoxy floor coating that complies with a variety of electrical resistance requirements.

Suitable for use in light traffic environments where conductive ESD standards are required.



Meets ASTM F150 Conductive, and IEC 61340-5-1



Seamless finish provides a surface that is easy to clean and maintain



Solvent free, low in VOCs and environmentally friendly

Technical Profile

FIRE RESISTANCE

EN 13501-1

B_{fl} - s1

SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

TEMPERATURE RESISTANCE

Tolerant up to 70°C

CHEMICAL RESISTANCE

Contact Technical Department

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS10 wheels)

0.15g loss per 1000 cycles

ELECTRICAL RESISTANCE

IEC 61340-5-1

5x10⁴ to 1x10⁶Ω

ASTM F150

2.5x10⁴ to 1x10⁶Ω

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete. > 1.5 MPa



Flowseal ESD Dissipative

A dissipative, water-based epoxy floor coating that complies with a variety of electrical resistance requirements.

Suitable for use in light traffic environments where conductive ESD standards are required.



Antistatic: Complies with ANSI/ESD S7.1 and ASTM F150 Dissipative requirements.



Seamless finish provides a surface that is easy to clean and maintain



Solvent free, low in VOCs and environmentally friendly

Technical Profile

FIRE RESISTANCE

EN 13501-1

B_{fl} - s1

SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider)

Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)

TEMPERATURE RESISTANCE

Tolerant up to 70°C

CHEMICAL RESISTANCE

Contact Technical Department

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS10 wheels)

0.15g loss per 1000 cycles

ELECTRICAL RESISTANCE

ASTM F150

1x10⁶ to 1x10⁹Ω

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete. > 1.5 MPa

For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.



Flowshield ESD Conductive



032-089-4116
Environmentally Preferred Paints &
Surface Coatings

An antistatic, self-smoothing epoxy floor coating that complies with a variety of electrical dissipation requirements.

For use in medium to heavy duty traffic areas where dissipative ESD standards are required.



Meets ASTM F150 Conductive, IEC 61340-5-1 requirements.



Protects against a majority of acids used in manufacturing processes.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE

EN 13501-1	B _{fl} - s1
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SLIP RESISTANCE

Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
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THERMAL RESISTANCE

Softens over 60°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS17 wheels)	80 mg loss per 1000 cycles
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COMPRESSIVE STRENGTH

EN 13892-2	60 N/mm ²
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FLEXURAL STRENGTH

EN 13892-2	40 N/mm ²
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TENSILE STRENGTH

BS 6319	25 N/mm ²
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BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete.
> 1.5 MPa

ELECTRICAL RESISTANCE

ASTM F150	2.5x10 ⁴ - 1.0x10 ⁶ Ω
IEC 61340-5-1	5x10 ⁴ - 1x10 ⁹ Ω

For a full Technical Profile, contact your local Technical Department.



Flowshield ESD Dissipative



032-089-4116
Environmentally Preferred Paints &
Surface Coatings

An antistatic, self-smoothing epoxy floor coating that complies with a variety of electrical dissipation requirements.

For use in medium to heavy duty traffic areas where dissipative ESD standards are required.



Complies with ANSI/ESD S7.1 and ASTM F150 Dissipative requirements.



Protects against a majority of acids used in manufacturing processes.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE

EN 13501-1	B _{fl} - s1
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SLIP RESISTANCE**

Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
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THERMAL RESISTANCE

Softens over 60°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

ABRASION RESISTANCE

Taber Abrader (1 kg load using CS17 wheels)	80 mg loss per 1000 cycles
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COMPRESSIVE STRENGTH

EN 13892-2	60 N/mm ²
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FLEXURAL STRENGTH

EN 13892-2	40 N/mm ²
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TENSILE STRENGTH

BS 6319	25 N/mm ²
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BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete. > 1.5 MPa

ELECTRICAL RESISTANCE

ASTM F150	1.0 x 10 ⁶ – 1.0 x 10 ⁹ Ω
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For a full Technical Profile, contact your local Technical Department.



Flowshield ESD BVG

An antistatic epoxy floor coating based on nanotechnology, compliant with electrical conductivity requirements.

For use in medium to heavy duty traffic areas where conductive ESD standards are required.



Solvent free and low odour during and after application.



Protects against a majority of chemicals used in manufacturing processes.



Hard-wearing & abrasion resistant suitable for medium to heavy traffic.

Technical Profile

FIRE RESISTANCE	
EN 13501-1	B _{fl} - s1
SLIP RESISTANCE	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
THERMAL RESISTANCE	
Tolerant up to 60°C	
WATER PERMEABILITY	
Nil – Karsten test (impermeable)	
ABRASION RESISTANCE	
Taber Abrader (1 kg load using CS17 wheels)	80 mg loss per 1000 cycles
COMPRESSIVE STRENGTH	
EN 13892-2	60 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	40 N/mm ²
TENSILE STRENGTH	
BS 6319	25 N/mm ²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm ² concrete. > 1.5 MPa	
ELECTRICAL RESISTANCE	
IEC 61340-5-1	< 10 ⁹ Ω
BODY VOLTAGE GENERATION (BVG)	
IEC 61340-4-5	< 100V
ANSI/ESD S2020	< 100V

For a full Technical Profile, contact your local Technical Department.



Flowcrete

for the world at your feet

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