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

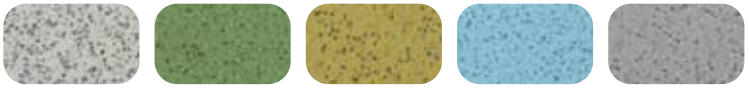
Flowcoat HTS

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

Flowchem VE GL

Green | Charcoal | Steel Grey | Light Grey

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.

Polygiene® Antimicrobial Effectiveness

Salmonella Typhi	✓
MRSA	✓
Enterococcus Faecalis	✓
E-coli	✓
Staphylococcus Aureus	✓
Listeria	✓
Streptococcus Pyogenes	✓
C.difficile	✓
Pseudomonas Aeruginosa	✓
Proteus Vulgaris	✓
Campila Bacta	✓

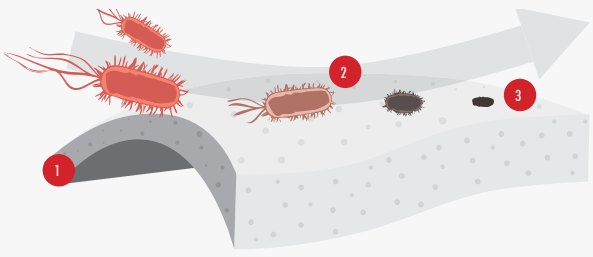
HACCP International Certified Hygienic Flooring

A food processing floor is subject to constant traffic, impact damage due to equipment handling and often subject to attack from chemicals and corrosive ingredients.

Resin flooring systems ensure a non-porous, smooth and seamless surface where there is nowhere for bacteria or mould spores to grow.

Flowcrete's HACCP International certified and ISO 22196 compliant polyurethane flooring materials offer enhanced protection with the inclusion of Polygiene®, a silver-ion antimicrobial agent, designed to protect the surface from degradation caused by microbial growth.

How Does Polygiene® Work?



1. The silver ions are homogeneously distributed throughout the floor.
2. The silver ions migrate to the surface.
3. They protect the surface from degradation caused by microbial growth.

Flowfresh MF (3–4mm)

032-089-4104
Environmentally Preferred Coating

A pigmented, antimicrobial, polyurethane floor finish applied in a smooth matt finish.

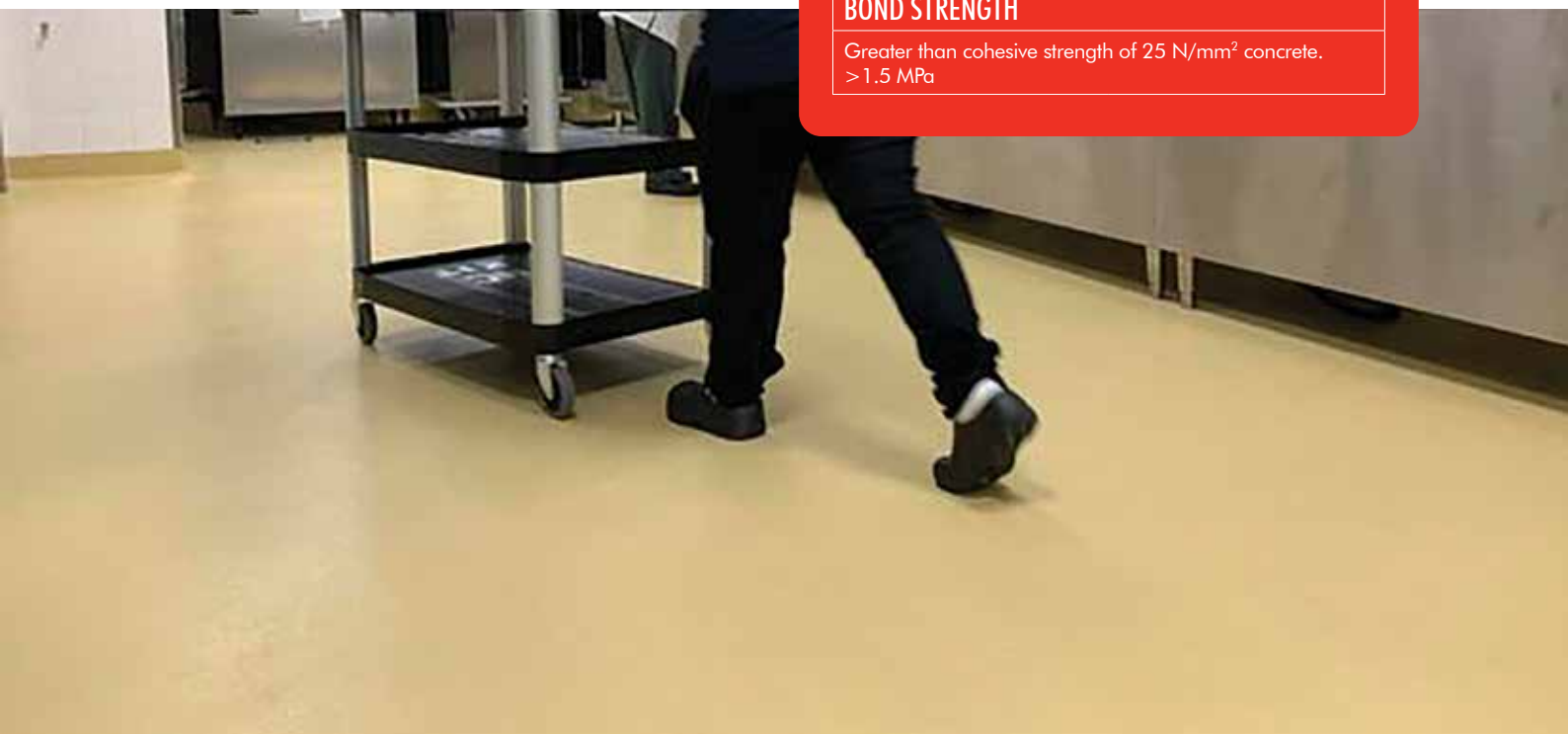
Provides a hygienic floor finish for dry or semi-wet F&B processing areas.

- Contains Polygiene®, an antimicrobial additive that inhibits bacteria growth.
- 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/m²/24hrs (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/mm²
FLEXURAL STRENGTH	
EN 13892-2	>20 N/mm²
TENSILE STRENGTH	
BS 6319	7 N/mm²
COEFFICIENT OF THERMAL EXPANSION	
ASTM C531	5.70 x 10^{-5} °C^{-1}
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.



Flowfresh RT

(RT: 6–9mm)

A heavy duty, hygienic PU screed providing a highly durable, lightly textured finish that incorporates an antimicrobial additive.

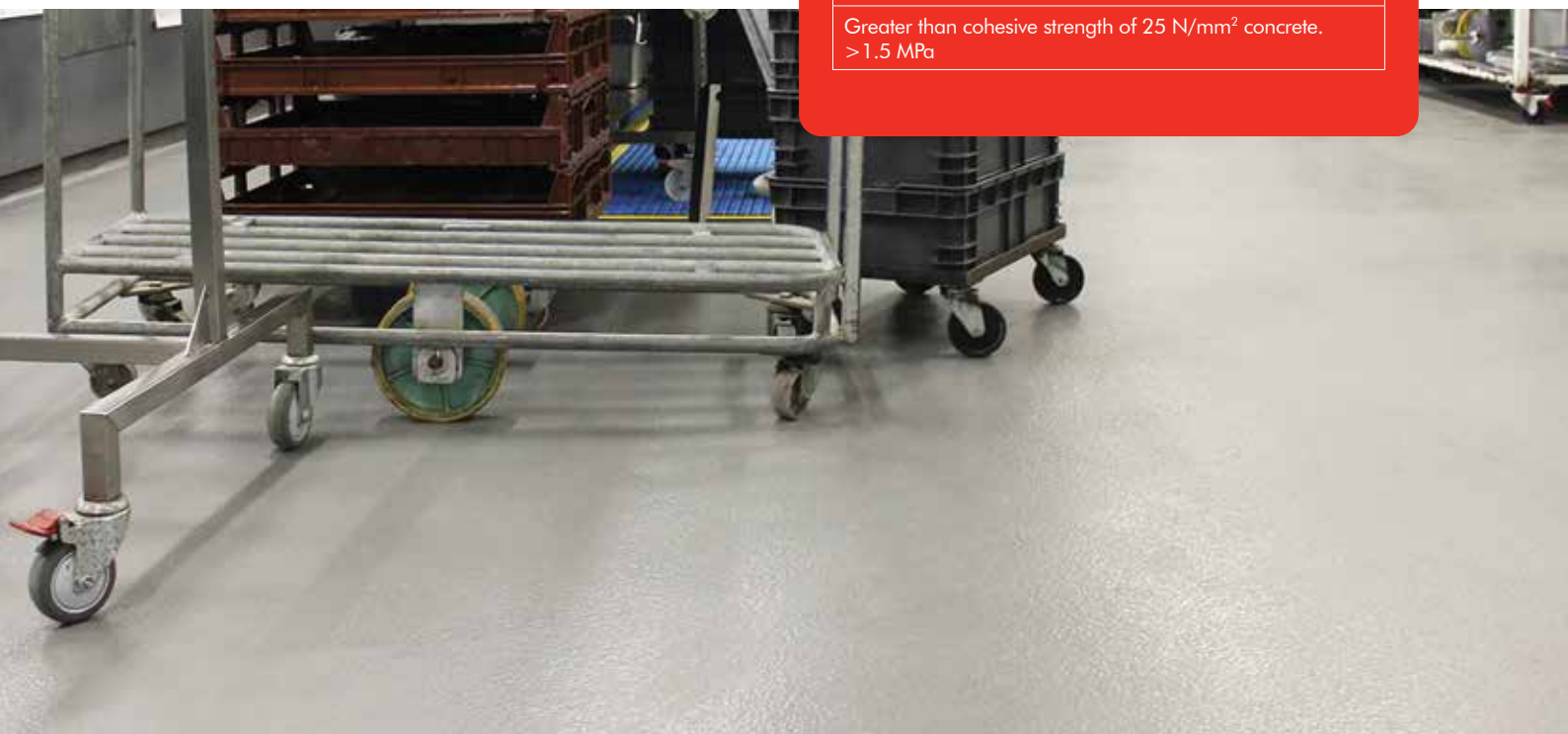
Provides a hygienic floor finish for heavy duty wet processing areas in F&B facilities.

- Contains an antimicrobial additive and is HACCP International Certified.
- 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.
- 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	20Nm
WATER PERMEABILITY	
Nil – Karsten test (impermeable)	
VAPOUR PERMEABILITY	
ASTM E96:90	3g/m²/24hrs (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/mm²
FLEXURAL STRENGTH	
EN 13892-2	>20 N/mm²
TENSILE STRENGTH	
BS 6319	>10 N/mm²
COEFFICIENT OF THERMAL EXPANSION	
ASTM C531	3.74×10^{-5} °C^{-1}
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm² concrete. >1.5 MPa	

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



Flowfresh SR

(SR: 3–4mm)

A heavy duty, chemical resistant, antimicrobial polyurethane resin floor system with a positively textured finish.

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

- Contains an antimicrobial additive and is HACCP International Certified.
- 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.

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	
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/mm²
FLEXURAL STRENGTH	
EN 13892-2	>20 N/mm²
TENSILE STRENGTH	
BS 6319	7 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.

Flowfresh SRQ

(Thickness dependent on specification)

An antimicrobial 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.

- Contains an antimicrobial additive and is 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	

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

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/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 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/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.

Flowshield SL

(2–3mm)

032-089-3427
Environmentally Preferred Coating

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/mm²
FLEXURAL STRENGTH	
EN 13892-2	>30 N/mm²
TENSILE STRENGTH	
BS 6319	25 N/mm²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm² 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	

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

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	

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

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
THERMAL RESISTANCE	
Tolerant up to 60°C	
CHEMICAL RESISTANCE	
Contact technical department	
COMPRESSIVE STRENGTH	
EN 13892-2	>60 N/mm^2
FLEXURAL STRENGTH	
EN 13892-2	>20 N/mm^2
TENSILE STRENGTH	
BS 6319	10 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.

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	1kg weight > 1.8m 2kg weight > 1.5m
THERMAL RESISTANCE	
Tolerant up to 60°C	
CHEMICAL RESISTANCE	
Contact technical department	
COMPRESSIVE STRENGTH	
BS 6319	>50 N/mm^2
FLEXURAL STRENGTH	
BS 6319	25 N/mm^2
TENSILE STRENGTH	
BS 6319	10 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.

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/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.

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_{fl} - s1
THERMAL RESISTANCE	
Tolerant up to 60°C	
VAPOUR PERMEABILITY	
ASTM: E96:90	20g/m²/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.

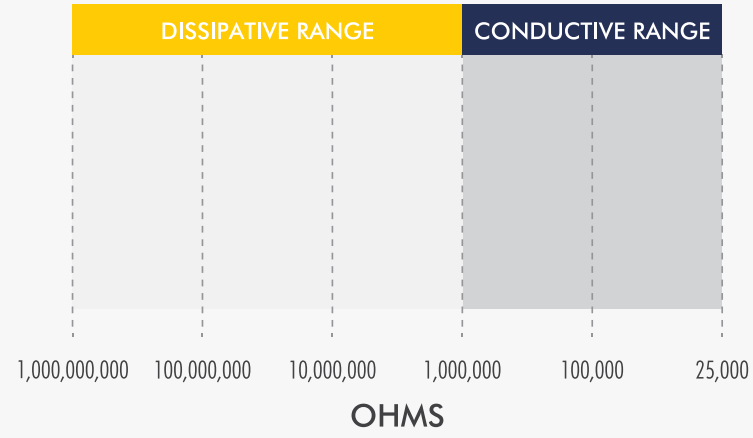
What is ESD Flooring?

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 with antimicrobial properties.

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

- Meets the BS 2050 specification for electrical resistance
- Contains Polygiene® - Antimicrobial protection
- 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/mm^2
FLEXURAL STRENGTH	
EN 13892-2	20 N/mm^2
TENSILE STRENGTH	
BS 6319	>10 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}

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

Flowfresh ESD MF

(3mm)

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

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

- Meets the BS 2050 specification for electrical resistance
- Contains Polygiene® - Antimicrobial protection
- 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} $°C^{-1}$

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

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	$5x10^4$ to $1x10^9\Omega$
ASTM F150	$2.5x10^4$ to $1x10^6\Omega$
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm² concrete. >1.5 MPa	

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

Flowseal ESD Dissipative

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	$5x10^4$ to $1x10^9\Omega$
ASTM F150	$2.5x10^4$ to $1x10^6\Omega$
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
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	
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
COMPRESSIVE STRENGTH	
EN 13892-2	60 N/mm²
FLEXURAL STRENGTH	
EN 13892-2	40 N/mm²
TENSILE STRENGTH	
BS 6319	25 N/mm²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm² concrete. >1.5 MPa	
ELECTRICAL RESISTANCE	
ASTM F150	$1.0 \times 10^6 – 1.0 \times 10^9$ 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
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	
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
COMPRESSIVE STRENGTH	
EN 13892-2	60 N/mm²
FLEXURAL STRENGTH	
EN 13892-2	40 N/mm²
TENSILE STRENGTH	
BS 6319	25 N/mm²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm² concrete. >1.5 MPa	
ELECTRICAL RESISTANCE	
ASTM F150	$1.0 \times 10^6 – 1.0 \times 10^9$ Ω

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

Flowshield ESD BVG

A fibre-free antistatic, self-smoothing epoxy floor coating based on nano technology that complies with a variety of electrical conductivity requirements.

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

- Meets ANSI/ESD S2020, IEC 61340-5-1 & IEC 61340-4-5 requirements.
- 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/mm²
FLEXURAL STRENGTH	
EN 13892-2	40 N/mm²
TENSILE STRENGTH	
BS 6319	25 N/mm²
BOND STRENGTH	
Greater than cohesive strength of 25 N/mm² 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.

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