



## INDUSTRIAL FLOORING

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

# Industrial Flooring Technical Profile

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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.

What's more, Flowcrete's Industrial flooring range offers everything from textured finishes for slip resistance to UV stability to maintain colour vibrancy. Some ranges 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.

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## Application Suitability



Manufacturing



Automotive



Electronic



Pharmaceutical



Aerospace



Food & Drink Processing



## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>s</sub>-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 / m<sup>2</sup> / mm / 24 hr

### SURFACE HARDNESS

Koenig Hardness Test

182 secs.

### CHEMICAL RESISTANCE

Contact Technical Department

## Flowseal EPW (0.2mm)

A pigmented, water-based epoxy floor sealer with a satin finish.

Flowseal EPW Floor Sealer's seamless application delivers a hygienic finish in light traffic areas.



Seamless, hygienic & easy to clean



Vapour permeable; substrate can breathe



Attractive finish to enhance workspaces



Solvent free, low odour

## Standard Colours



Ivory



Yellow



Steel Blue



Mid Blue



Light Green



Dark Green



Chilli Red



Light Grey



Steel Grey



Charcoal





# Flowcoat HS

(Thickness dependent on specification)

A solvent free, high performance epoxy resin floor coating system, offering impressive resistance to abrasion, impact and chemicals.

Flowcoat HS provides an attractive aesthetic to enhance the working environment, while delivering impressive performance benefits.



## Chemical Resistant:

Protects against chemicals, abrasive agents and detergents.



## Durable:

Holds its own against heavy traffic, abrasion and impact.



## Seamless:

Delivers a hygienic, easy to clean, seamless finish.



## Attractive:

Provides an attractive finish to enhance the working environment.

## Standard Colours



Ivory



Yellow



Steel Blue



Mid Blue



Light Green



Dark Green



Chilli Red



Light Grey



Steel Grey



Charcoal

The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>fl</sub>-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

### WATER PERMEABILITY

Karsten Test

Nil (Impermeable)

### 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

BS6319

>60 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319

>40 N/mm<sup>2</sup>

### TENSILE STRENGTH

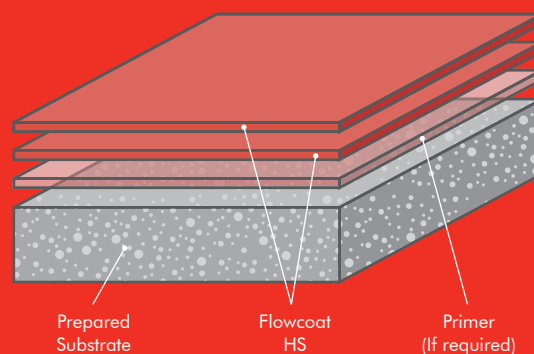
BS6319

>15 N/mm<sup>2</sup>

### BOND STRENGTH

>1.5 MPa\*

SPEED OF CURE**	10 °C	20 °C	30 °C
Light Traffic	48hrs	16hrs	12hrs
Full Traffic	72hrs	48hrs	40hrs
Full Chemical Cure	12 days	7 days	6 days



\*Assumes concrete compressive strength is greater than 25 N/mm<sup>2</sup>

\*\* Cure times at temperatures between 0-30 °C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.



## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>s</sub>-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

### ABRASION RESISTANCE

Taber Abrader (1 kg load  
using CS10 wheels)

80 mg loss per 1000 cycles

### COMPRESSIVE STRENGTH

BS6319

>60 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319

>40 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

>15 N/mm<sup>2</sup>

## Flowcoat CR

(Thickness dependent on specification)

A high performance, solvent free epoxy resin coating that delivers impressive chemical resistance.

Durable and hard wearing, Flowcoat CR also offers tailored slip resistance, with graded aggregates between coats.



Chemical, abrasion & slip resistant



Seamless, hygienic & easy to clean



Attractive to brighten up workspaces

## Standard Colours



Ivory



Yellow



Steel Blue



Mid Blue



Light Green



Dark Green



Chilli Red



Light Grey



Steel Grey



Charcoal



## Standard Colours



Steel Blue



Mid Blue



Light Green



Dark Green



Chilli Red



Light Grey



Steel Grey



Charcoal



## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>1</sub>-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 70 °C

### ABRASION RESISTANCE

Taber Abrader (1 kg load  
using CS10 wheels)

40 mg loss per 1000 cycles

BS8204-2

Grade AR2

### TENSILE STRENGTH

BS6319

> 15 N/mm<sup>2</sup>

### BOND STRENGTH

> 1.5 MPa\*

\*Assumes concrete compressive strength is greater than 25 N/mm<sup>2</sup>

## Flowcoat HTS

(Thickness dependent on specification)

A chemical and abrasion resistant hybrid polyurethane floor coating system, delivering high performance.

Flowcoat HTS provides a UV light stable finish in a range of bright colours to enhance the working environment.



Durable & resistant to heavy traffic



Excellent chemical resistance



Attractive, light reflective finish



UV resistant, colour stable

## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>s</sub>-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

### ABRASION RESISTANCE

Taber Abrader (1 kg load  
using CS17 wheels)

90 mg loss per 1000 cycles

### COMPRESSIVE STRENGTH

EN 13892-2

>50 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

EN 13892-2

>30 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

25 N/mm<sup>2</sup>

## Flowshield SL (2–3mm)

A high-gloss, self smoothing epoxy resin floor coating system.

Flowshield SL is typically installed in heavy duty areas, such as those where rubber wheeled fork lift trucks are used, owing to its durability.



Seamless, hygienic & easy to clean



Non-tainting & non-dusting



Durable & resistant to heavy traffic



Attractive to brighten up workspaces



Chemical resistance grade available

## Flowshield SL Cleanroom Suitability



## Standard Colours



Ivory



Yellow



Steel Blue



Mid Blue



Light Green



Dark Green



Chilli Red



Light Grey



Steel Grey



Charcoal





## Standard Colours



Ivory



Yellow



Steel Blue



Mid Blue



Light Green



Dark Green



Chilli Red



Light Grey



Steel Grey



Charcoal



## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>1</sub>-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

### ABRASION RESISTANCE

Taber Abrader (1 kg load  
using CS17 wheels)

90 mg loss per 1000 cycles

### COMPRESSIVE STRENGTH

BS6319

>60 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319

>40 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

>25 N/mm<sup>2</sup>

## Flowshield CR (2–3mm)

A self smoothing epoxy resin floor coating system that delivers exceptional chemical resistance.

Flowshield CR is typically applied to surfaces where the floor is subject to chemical attack as well as heavy foot and wheeled traffic.



High chemical resistance



Durable & resistant to heavy traffic



Attractive, light reflective finish



Antistatic grade available

## Technical Profile

### FIRE RESISTANCE

EN 13501-1

E<sub>fl</sub>-s1

### SLIP RESISTANCE

BS 7976-2  
(typical values for 4-5  
rubber slider)

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

### TEMPERATURE RESISTANCE

Tolerant up to 60°C

### ABRASION RESISTANCE

Taber Abrader (1 kg load  
using CS17 wheels)

90 mg loss per 1000 cycles

### COMPRESSIVE STRENGTH

BS6319

>55 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319

>20 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

>10 N/mm<sup>2</sup>

## 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.



Attractive to brighten up workspaces



Durable & resistant to heavy traffic



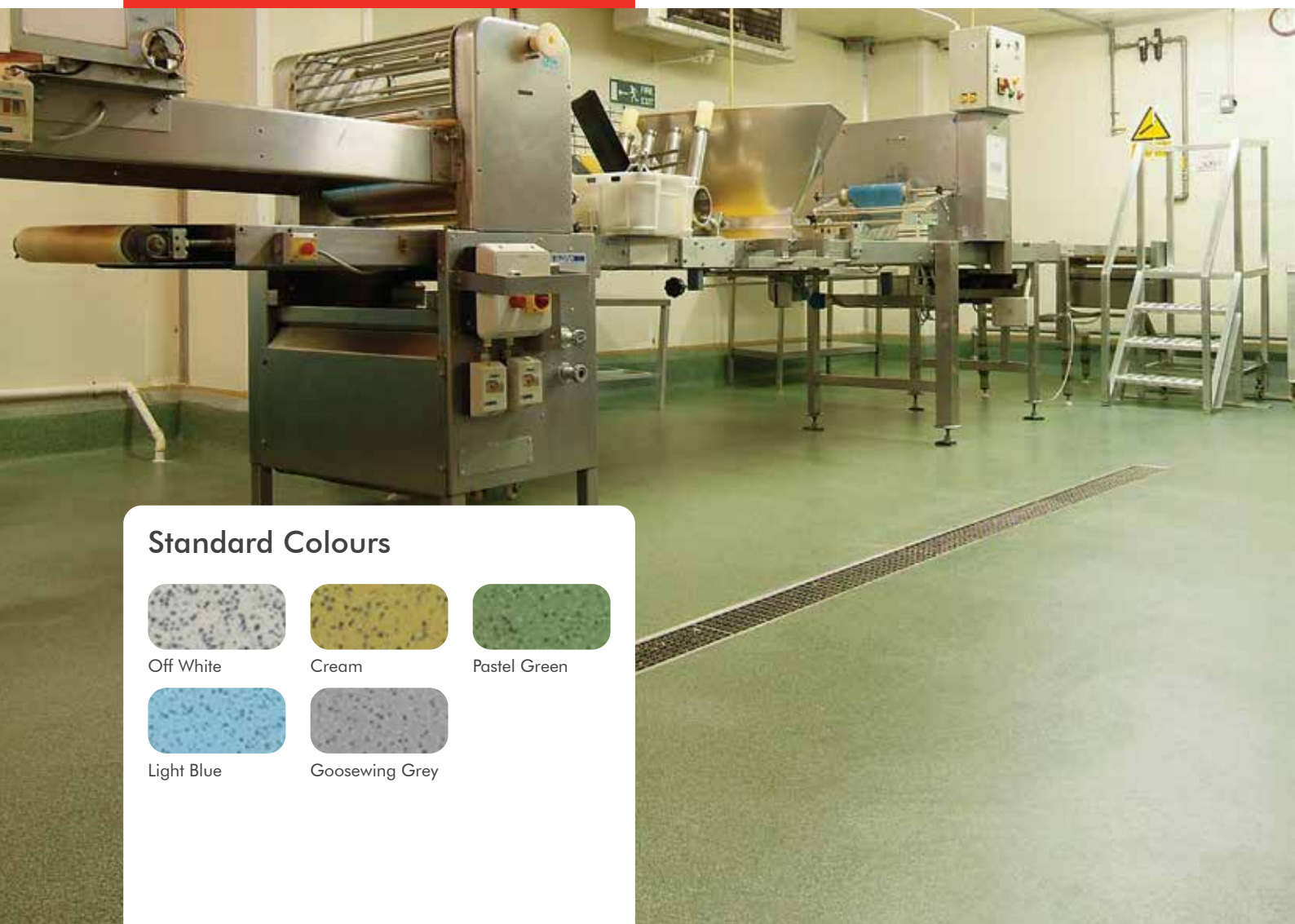
Solvent free, low odour



Chemical resistant



Textured, slip resistant finish



## Standard Colours



Off White



Cream



Pastel Green



Light Blue



Goosewing Grey



## Technical Profile

### IMPACT RESISTANCE

ISO6272 (1 kg weight)	> 1.8 m
ISO6272 (2 kg weight)	> 1.5 m

### TEMPERATURE RESISTANCE

Tolerant up to 60°C

### COMPRESSIVE STRENGTH

EN 13892-2	> 60 N/mm <sup>2</sup>
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### FLEXURAL STRENGTH

EN 13892-2	> 20 N/mm <sup>2</sup>
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### TENSILE STRENGTH

BS6319	10 N/mm <sup>2</sup>
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### BOND STRENGTH

> 1.5 MPa\*

\*Assumes concrete compressive strength is greater than 25 N/mm<sup>2</sup>

## Flowtex PT (4–6mm)

A power trowelled, heavy duty epoxy screed underlayment for a variety of floor finishes.

Flowtex PT is usually installed in wet or dry processing areas, prior to the installation of chemical resistant, hard wearing floor toppings.



Durable & resistant to impact



Power trowelled for dense, flat finish



Solvent free, low odour



Minimises undulation



# Flowfresh MF (3–4mm)

A HACCP International certified, antimicrobial polyurethane flooring system with a smooth, matte finish.

Flowfresh MF incorporates Polygiene®, a silver-ion additive that inhibits the growth of bacteria on the floor surface.



## HACCP International Certified:

Can be installed in food facilities as part of a HACCP food safety plan.



## Antimicrobial:

Contains Polygiene® and meets ISO 22196 standards.



## Chemical Resistant:

Protects against chemicals, abrasive agents and detergents.



## Durable:

Holds its own against heavy traffic, abrasion and impact.



## UV Stable Grade Available:

Minimises discolouration when exposed to ultra-violet light.

## Standard Colours



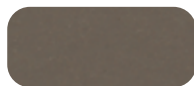
Warm Buff



Coral Red



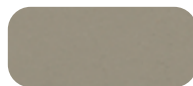
Clay



Pewter Grey



Shamrock Green



Ash Grey



Blue

The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

## Technical Profile



### FIRE RESISTANCE

EN 13501-1

B<sub>fl</sub>-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

From -5°C to 70°C (at 3 mm)  
From -15°C to 90°C (at 4 mm)

### WATER PERMEABILITY

Karsten Test

Nil (Impermeable)

### VAPOUR PERMEABILITY

ASTM E96:90

5 g / m<sup>2</sup> / 24 hr (at 4 mm)

### ABRASION RESISTANCE

Taber Abrader (1 kg load  
using CS17 wheels)

0.1 g loss per 1000 cycles

### COMPRESSIVE STRENGTH

EN 13892-2

>50 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

EN 13892-2

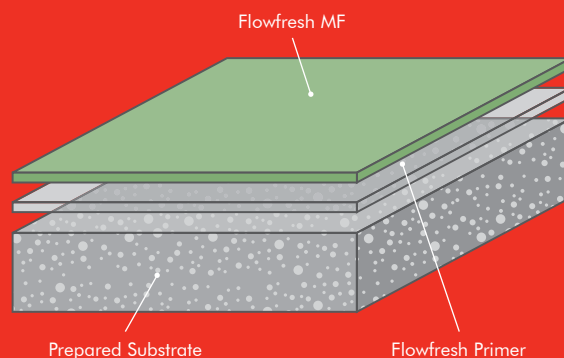
>20 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

7 N/mm<sup>2</sup>

SPEED OF CURE**	10°C	20°C	30°C
Light Traffic	36 hrs	24 hrs	12 hrs
Full Traffic	72 hrs	48 hrs	24 hrs
Full Chemical Cure	10 days	7 days	6 days



\*\* Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.



## Technical Profile



### FIRE RESISTANCE

EN 13501-1

B<sub>fl</sub>-s1

### SLIP RESISTANCE

BS 7976-2  
(typical values for 4-5  
rubber slider)

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

### TEMPERATURE RESISTANCE (RT & HF)

From -25°C to 100°C (at 6 mm)  
From -45°C to 120°C (at 9 mm)

### VAPOUR PERMEABILITY

ASTM E96:90

3 g / m<sup>2</sup> / 24 hr (at 9 mm)

### COMPRESSIVE STRENGTH

EN 13892-2

>50 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

EN 13892-2

>20 N/mm<sup>2</sup>

### TENSILE STRENGTH (RT & HF)

BS6319

>10 N/mm<sup>2</sup>

## Flowfresh RT / HF / SR

(SR: 3-4mm, RT / HF: 6-9mm)

**Positively textured, HACCP  
International certified, antimicrobial  
polyurethane flooring systems.**

Flowfresh RT, HF and SR all incorporate Polygiene®, an silver-ion additive that inhibits the growth of bacteria on the floor surface.



HACCP International certified



Positively textured to minimise slip risk



Resists chemicals & extreme temperatures



Antimicrobial

## Standard Colours



Warm Buff



Coral Red



Clay



Ash Grey



Shamrock Green



Pewter Grey



Blue

\*Additional topcoat is required for Rich Cream and other lighter colours (Flowfresh SR only)





## Standard Colours



Dark Grey



Mid Grey



Light Grey



Light Blue



Green



Red



Yellow



Brown



## Technical Profile



### FIRE RESISTANCE

EN 13501-1

B<sub>1</sub>-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 (≥ 6 mm)

90°C (continuous exposure), 110°C (intermittent spills)

### VAPOUR PERMEABILITY

ASTM E96:90

5 g / m<sup>2</sup> / 24 hrs (at 4 mm)

### COMPRESSIVE STRENGTH

EN 13892-2

>50 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

EN 13892-2

>20 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

>10 N/mm<sup>2</sup>

## Flowfresh SRQ

(Thickness dependent on specification)

A HACCP International certified, antimicrobial polyurethane flooring system with a textured quartz finish.

Flowfresh SRQ incorporates Polygiene®, a silver-ion additive that inhibits the growth of bacteria on the floor surface.



HACCP International certified



Positively textured to minimise slip risk



Antimicrobial



Resists chemicals & extreme temperatures

## 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\*

\*Assumes concrete compressive strength is greater than 25 N/mm<sup>2</sup>

## 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.



Highly chemical resistant



Temperature resistant up to 165°C



Rapid curing for fast return to service



Various grades available

## Standard Colours



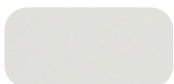
Green



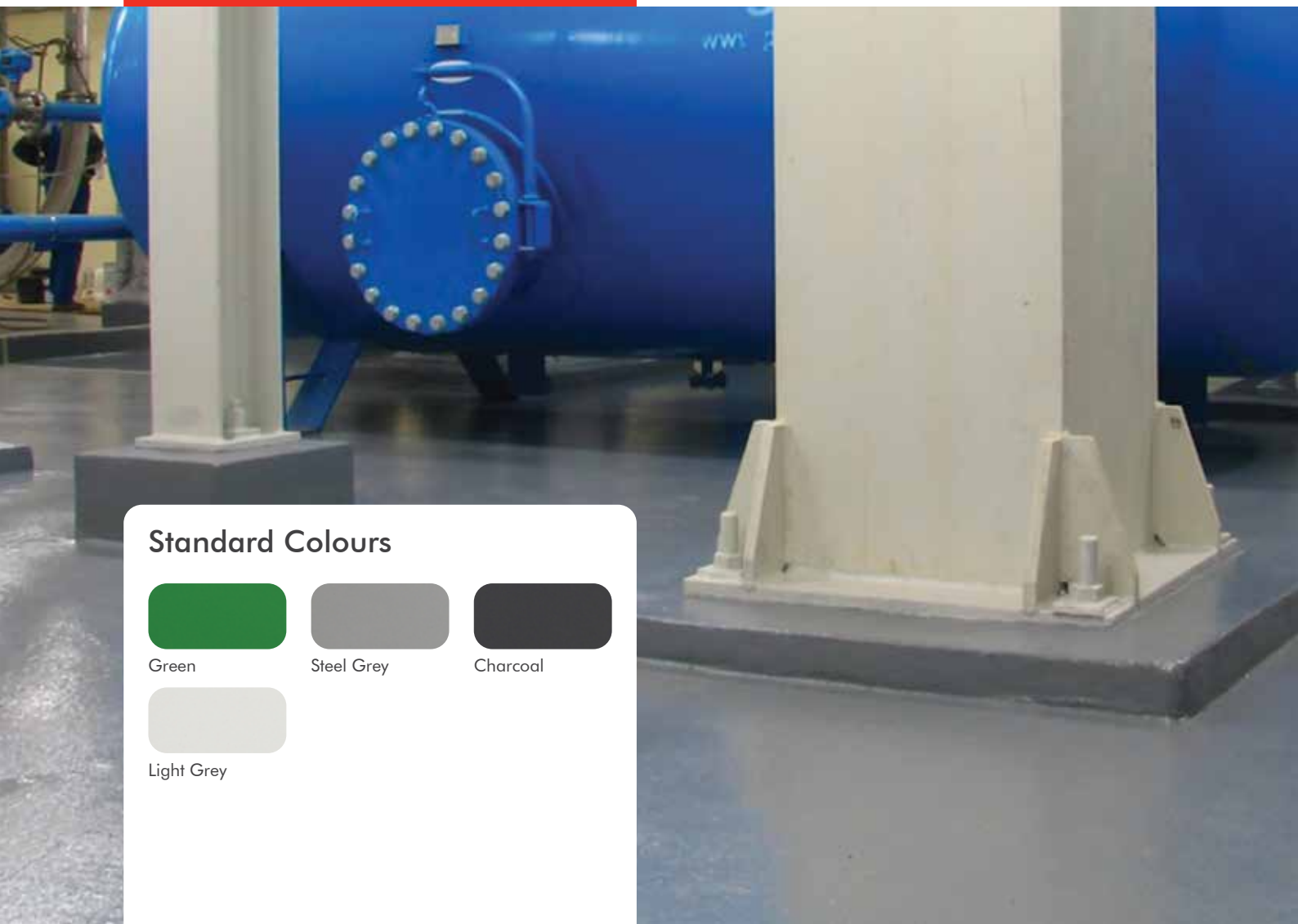
Steel Grey



Charcoal



Light Grey





## 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

BS 6319	> 50 N/mm <sup>2</sup>
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### FLEXURAL STRENGTH

BS 6319	25 N/mm <sup>2</sup>
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### TENSILE STRENGTH

BS 6319	10 N/mm <sup>2</sup>
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### BOND STRENGTH

Greater than cohesive strength of 25 N/mm<sup>2</sup> concrete.  
> 1.5 MPa

## 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.



Anti-osmosis



Solvent free



Excellent impact resistance



Minimises undulation



## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>s</sub>-s1

### TEMPERATURE RESISTANCE

Tolerant up to 60°C

### VAPOUR PERMEABILITY

ASTM E96:90

20 g / m<sup>2</sup> / mm / 24 hr

### CHEMICAL RESISTANCE

Contact Technical Department

### SPEED OF CURE\*\*

10°C

20°C

30°C

Overcoating Time

16 hrs

8 hrs

6 hrs

Full Chemical Cure

14 days

7 days

6 days

\*\*Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.

## Flowseal EPW Wall (0.2mm)

A pigmented, water-based epoxy wall sealer with a satin finish.

Flowseal EPW Floor Sealer's seamless application delivers an easy to maintain finish for walls in areas where hygiene is critical.



Seamless, hygienic & easy to clean



Vapour permeable; substrate can breathe



Attractive finish to enhance workspaces



Solvent free, low odour

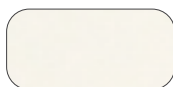
## Flowseal EPW Wall Cleanroom Suitability



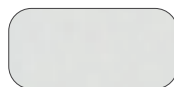
## Standard Colours



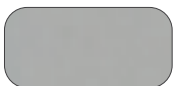
White



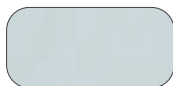
Oyster



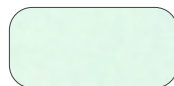
Silver Grey



Dolphin Grey



Sky Blue

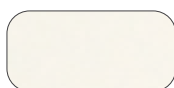


Pale Green

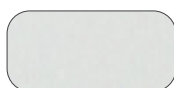
## Standard Colours



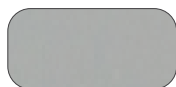
White



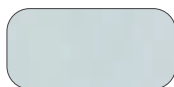
Oyster



Silver Grey



Dolphin Grey



Sky Blue



Pale Green



## Technical Profile

### FIRE RESISTANCE

EN 13501-1

B<sub>s</sub>-s1

### TEMPERATURE RESISTANCE

Tolerant up to 60°C

### VAPOUR PERMEABILITY

ASTM E96:90

20 g / m<sup>2</sup> / mm / 24 hr

### CHEMICAL RESISTANCE

Contact Technical Department

### SPEED OF CURE\*\*

20°C

30°C

Surface Dry

1.5 hrs

1 hr

Hard Dry

5 hrs

3 hrs

Full Chemical Cure

7 days

6 days

\*\*Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.

## Flowgard WB (0.2mm)

A single component, water based polyurethane interior wall coating.

Flowgard WB's smooth, flexible application provides a seamless, hygienic finish in a variety of industrial facilities.



Seamless, hygienic & easy to clean



Attractive finish to enhance workspaces



Low odour application



Crack bridging



Non yellowing, non staining



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