

► An extensive range of industrial coatings, screeds and repair mortars suited to...

MINING FACILITIES

Welcome to Flowcrete South Africa

South Africa is a world leader in mining. The country is famous for its abundance of mineral resources, accounting for a significant proportion of world production and reserves.

South Africa's prolific mineral reserves include precious metals and minerals, energy minerals, non-ferrous metals and minerals, ferrous minerals, and industrial minerals. South Africa is also a major producer of coal, manganese and chrome.

Flowcrete South Africa has an extensive range of industrial coatings, screeds and repair mortars suited to these mining facilities harsh conditions. As well as high performance coatings, Flowcrete also offers highly chemical resistant coatings that will withstand chemical attack from spillages often experienced on the mines.

Mining Facilities Floor Plan



Plant areas
Peran PTS



Ablutions
Flowfresh SR Ultra



Car Parks
Deckshield ED



Storage Areas
Flowcoat SF41



Tank Linings
Flowprime 366



Kitchen Areas
Flowfresh RT



Chemical Areas
Flowchem VE



Crushing & Grinding Areas
Flowcoat UV



External Walkways
Flowcoat SF41
Flowcoat UV



Concrete Repair
Tamms Thin Patch
NS Grout



Flowchem VE (5–10 mm)

A horizontal, trowel applied, low shrink vinyl ester resin based screed. Flowchem VE is used to protect against aggressive chemicals, solvents and thermal attack in medium to heavy duty environments.

☒ CHEMICALLY AGGRESSIVE AREAS



Excellent chemical resistance



Abrasion and impact resistant



Fast curing for minimum downtime



APPLICATION SUITABILITY

✓ New build ✓ Refurbishment

CHEMICAL RESISTANCE

Contact your local Technical Department

THERMAL RESISTANCE

Tolerant up to 160°C



Peran PTS (4–5 mm)

A hardwearing, power troweled natural epoxy screed sealed with a pigmented epoxy coating.

☒ PLANT AREAS

SLIP RESISTANCE

BS 7976-2 Dry 59, Wet 35

COMPRESSIVE STRENGTH

BS 6319 >70 N/mm²

FIRE RESISTANCE

Certificate No. 1721/75
SITAC Class G

Standard Colours



Cream



Green



Kalahari



Mid Grey



Light Grey



Signal Red



Sky Blue



Slate Grey

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

Flowcoat SF41 (0.3–0.5 mm)

A durable, high performance epoxy resin coating with the option of additional slip resistance. With high abrasion and chemical resistance properties, this system is ideal for environments needing a hard wearing floor.

☒ EXTERNAL WALKWAYS, STORAGE AREAS

Standard Colours



Cream


Green


Kalahari


Light Grey


Mid Grey


Signal Red


Sky Blue


Slate Grey



SLIP RESISTANCE

TRRL Pendulum Slip Test	Dry 80, Wet 35
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FIRE RESISTANCE

SANS10177 - Part 4	Class 2
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WATER PERMEABILITY

Karsten Test	Nil (Impermeable)
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Applied colours may differ from the examples shown. For a full technical profile, colour chart and samples, contact your local Flowcrete office.





Flowfresh SR Ultra (4–5 mm)

A high performance polyurethane system, incorporating a unique antimicrobial additive. Flowfresh SR Ultra delivers a durable surface underfoot for an easy-to-clean, and hygienic finish

☒ ABLUTIONS, CHANGING ROOMS

FIRE RESISTANCE

BS476-7

Class 2

TEMPERATURE RESISTANCE

Intermittent Spillages: Up to 100°C
Constant Heat: Up to 75°C

SLIP RESISTANCE

BS 6677-1
Pendulum Slip Test

Dry > 100
Wet > 70

Standard Colours



Cream



Yellow Ochre



Sand Yellow



Tomato Red



Signal Grey



Signal Green



Dusty Grey



Light Blue

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

Flowfresh RT (6–9 mm)

Flowfresh RT is a positively textured, HACCP International certified, antimicrobial polyurethane flooring system. It incorporates Polygiene®, a silver-ion additive that inhibits the growth of bacteria on the floor surface.

✓ KITCHEN AREAS

Standard Colours



Cream



Yellow Ochre



Sand Yellow



Tomato Red



Signal Grey



Signal Green



Dusty Grey



Light Blue



SLIP RESISTANCE

TRRL Pendulum Slip Test	Dry > 80 Wet > 35
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FIRE RESISTANCE

BS476-7	Class 2
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TEMPERATURE RESISTANCE

-25°C to 100°C (at 6 mm), -45°C to 120°C (at 9 mm)
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Flowprime 366

A solvent based anti-corrosive holding primer for use on grit blasted steel or galvanized surfaces.

✓ TANK LININGS



Protects against corrosion



Demonstrates excellent adhesion



Fast-curing for a quick turnaround



Suitable for overcoating



THEORETICAL COVERAGE

10m²/L

OVERCOAT TIME

Min 8 hours
Max 3 months

APPLICATION TEMPERATURE

Min 10°C
Max 30°C



Flowcoat UV

A polyurethane sealer providing excellent UV protection. Flowcoat UV is also used for demarcation purposes.

✓ CRUSHING & GRINDING AREAS, EXTERNAL WALKWAYS

Standard Colours



Yellow



Forest Green



Tile Red



Light Grey



Mid Grey



Cream



Clear

POT LIFE

2 hours

THEORETICAL COVERAGE

8-10 m²/L

APPLICATION TEMPERATURE

Min 10°C

C Max 30°C

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

Deckshield ED



A flexible polyurethane deck coating system designed to provide a colourful, watertight and hard-wearing surface for exposed or roof level decks.

✓ EXPOSED AND ROOF LEVEL CAR PARKS



Standard Colours



TEMPERATURE RESISTANCE

Softens over 70°C, hardens on cooling

WATER PERMEABILITY

Karsten Test Nil (Impermeable)

RESISTANCE TO CHLORIDE IONS:

DOT BD47/94: Appendix B, Method B4, 2(d) No chloride ion penetration after 28 days



Flowcoat N

A high performance epoxy novalac coating system with an extremely high chemical tolerance profile.

✓ CRUSHING & GRINDING AREAS, EXTERNAL WALKWAYS

NO. OF COMPONENTS

2 plus E-Glass 280 grams twill or other

HARDNESS

80-85 Shore D

FLAMMABILITY

Class V0



Excellent chemical resistance



Adjustable, positively textured profile to minimise slip risks



Excellent abrasion, impact and wear resistance



Resistant to continuous heat exposure up to 75°C.



Used for vertical applications for acid & alkali bund areas

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

Technical Profile

SETTING TIME

FLOWABLE CONSISTENCY

Initial Set 5 to 5.5 hours
Final Set 5.5 to 6 hours

FLUID CONSISTENCY

Initial Set 5 to 5.5 hours
Final Set 7 to 8 hours

FLOW RATE

FLOWABLE CONSISTENCY

120% (Flow Table)

FLUID CONSISTENCY

< 30 seconds (flow cone)

COMPRESSIVE STRENGTH

FLOWABLE CONSISTENCY

3 days 28 MPa
7 days 34 MPa
28 days 48 MPa

FLUID CONSISTENCY

3 days 21 MPa
7 days 33 MPa
28 days 41 MPa

EXPANSION

FLOWABLE CONSISTENCY

3 days 0.04%
28 days 0.04%

FLUID CONSISTENCY

3 days 0.06%
28 days 0.07%

NC Grout



EUCLID CHEMICAL

A non-shrink, non-staining grout. Its multi-flow quality allows this product to be used at various consistencies including pumping into inaccessible areas. NC Grout may be packed, rodded, vibrated, poured or pumped. It has high compressive and flexural strengths and is non-rusting and noncorrosive.

CONCRETE REPAIR



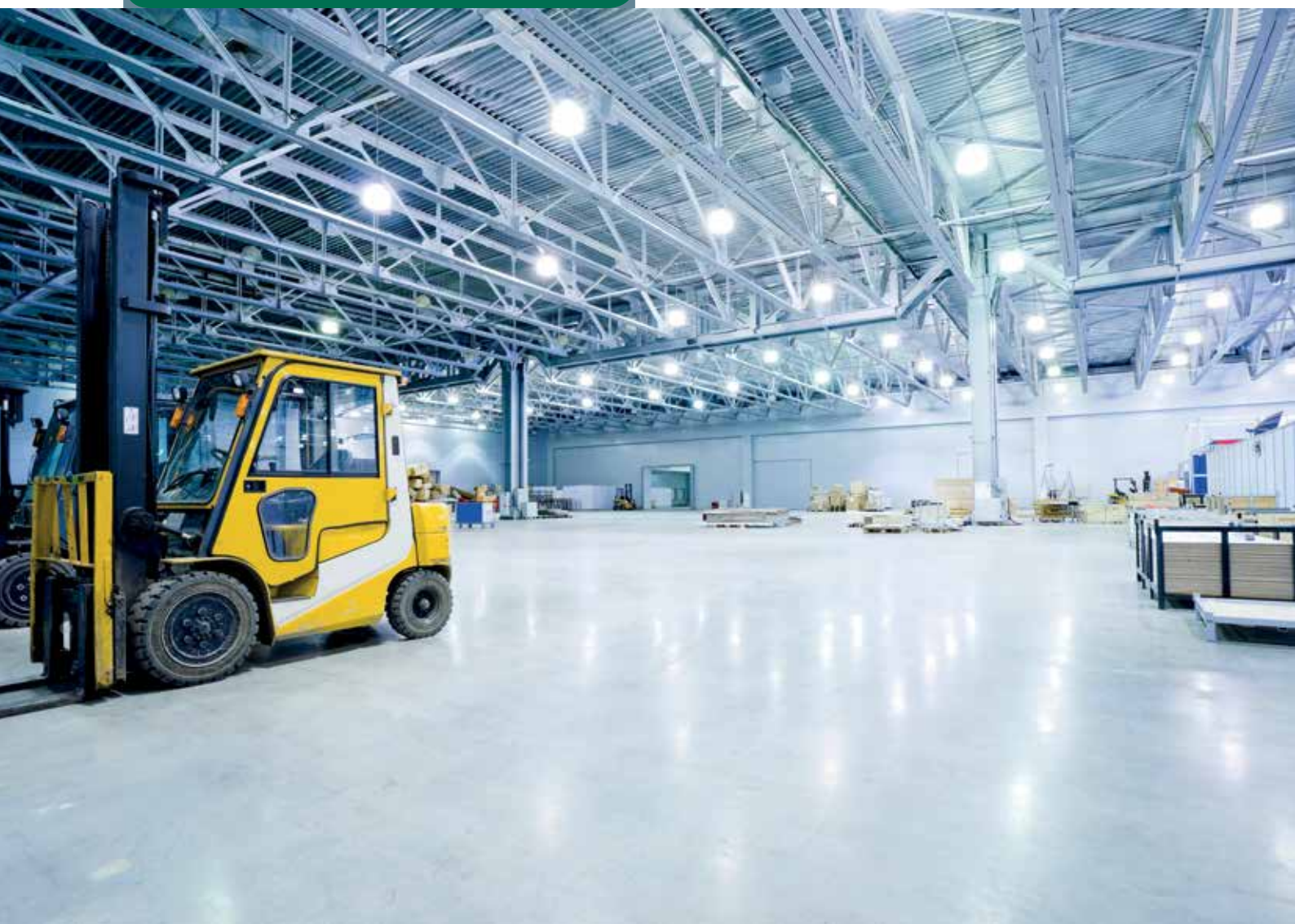
Can be used in wet areas - will not rust



Above or below grade



Versatile flow capability



Technical Profile

SET TIMES

Initial Set 30 to 50 minutes
Final Set 1 to 2 hours

FLEXURAL STRENGTH

7 days 630 (4.3)
28 days 725 (5.0)

COMPRESSIVE STRENGTH

1 day 1,200 (8.3)
28 days 3,500 (24.1)

SPLIT TENSILE STRENGTH

7 days 200 (1.4)
28 days 290 (2.0)

SHRINKAGE

7 days 0.008%
28 days -0.040%

Tamms Thin Patch



EUCLID CHEMICAL

A polymer-modified, cement-based mortar formulated for repairing defects in concrete and masonry surfaces from featheredge up to 2.54 cm

CONCRETE REPAIR



Single-component



Trowelable repair mortar



Long-term durability



Outstanding bond strength

NS Grout



EUCLID CHEMICAL

A pumpable, dual shrinkage compensated grout, that provides extended workability when mixed and placed and is designed to provide a high ultimate compressive strength.

CONCRETE REPAIR



Appearance of plain concrete



Outstanding strength



Non-staining natural aggregate for better appearance

Technical Profile

SETTING TIME

Initial Set 3 to 5 hours
Final Set 4 to 6 hours

FLOW RATE

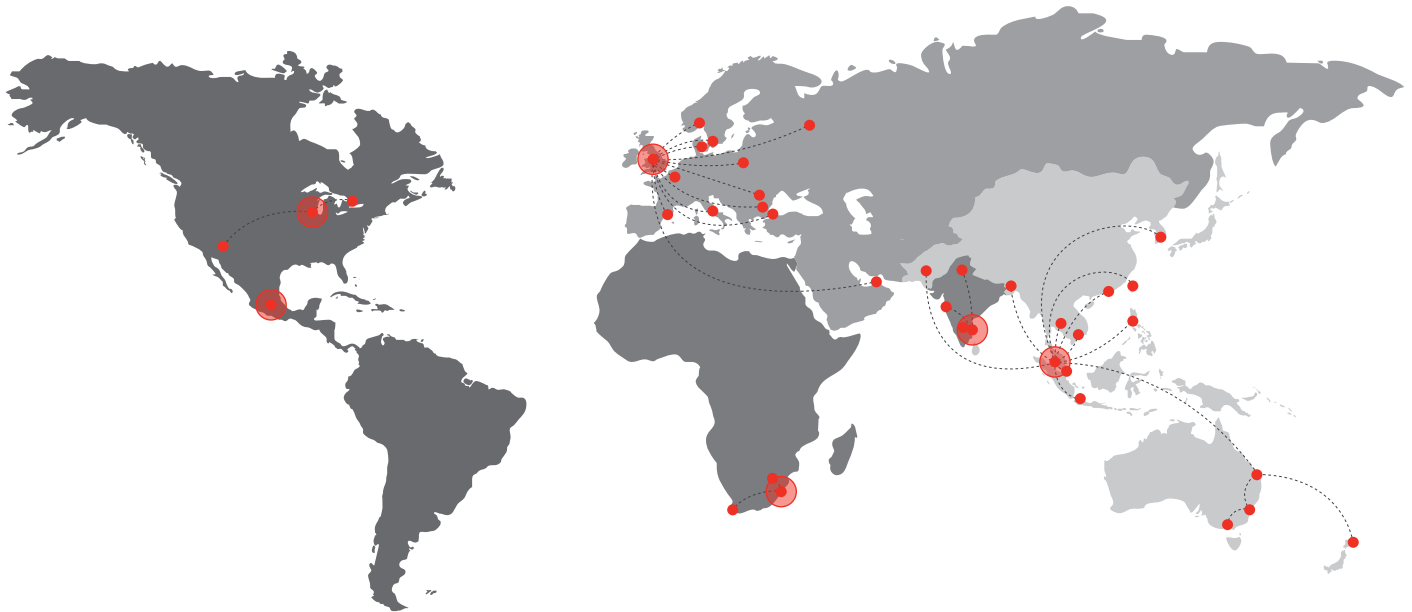
FLOWABLE CONSISTENCY	FLUID CONSISTENCY
120% (Flow Table)	20 to 30 seconds (Flow Cone)

COMPRESSIVE STRENGTH

FLOWABLE CONSISTENCY	FLUID CONSISTENCY
3 days 4500 psi (31 MPa) 7 days 6000 psi (41 MPa) 28 days 8500 psi (59 MPa)	3 days 3500 psi (24 MPa) 7 days 5000 psi (34 MPa) 28 days 6800 psi (47 MPa)

EXPANSION

FLOWABLE CONSISTENCY	FLUID CONSISTENCY
3 days 0.02% 7 days 0.02% 14 days 0.03% 28 days 0.03%	3 days 0.01% 7 days 0.03% 14 days 0.05% 28 days 0.05%



Flowcrete

World leader in seamless resin flooring solutions and other specialist coatings.

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