







Specialist Resin Flooring Systems for:

PHARMACEUTICAL FACILITIES

- **Production Plants**
- Laboratories & Clean Rooms
- ✓ Chemical Storage Areas

Welcome to Flowcrete UK

A critical consideration in the design and construction of pharmaceutical facilities is the flooring used to protect the different operational areas found within. Pharmaceutical brands require floor and wall systems that meet strict hygiene and safety protocols of Good Manufacturing Practice (GMP)

Whether found in production suites, assembly lines or research and development laboratories, flooring materials must offer a wealth of performance characteristics including excellent abrasion, chemical and impact resistance, the ability to withstand extreme temperature swings and provide an easily cleaned, smooth and hygienic finish.

Flowcrete UK offers a complete package of specialty epoxy, polyurethane, MMA and vinyl ester resin floor and wall systems designed to cater for all areas within pharmaceutical facilities. As well as an extensive range of sub floor screeds and substrate treatments in order to ensure the integrity of the final floor finish.

Application Suitability



Production Plants



Assembly Lines



Laboratories



Chemical Storage **Areas**



Packaging & Warehousing



Corridors & Stairwells



Maintenance & Storage



Gowning Rooms & **Airlocks**



Rest Rooms & Administrative Areas



Multi-Story Parking Facilities

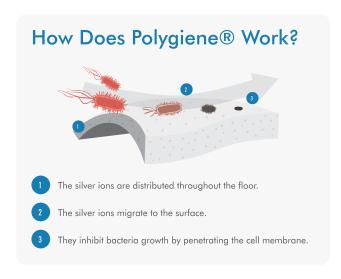


GMP Compliant Epoxy, Polyurethane & MMA Flooring

Pharmaceutical production facilities require smooth floors, walls and ceilings, free from cracks and open joints that reduce the risk of contamination or bacteria build-up while at the same time ensure a safe, non-slip profile underfoot. According to 'The Rules Governing Medicinal Products in the European Union' the internal surfaces should permit an easy and effective cleaning and, if necessary, disinfection.

Resin flooring systems, including epoxy, polyurethane and MMA systems, ensure a non-porous, smooth and seamless surface where there is nowhere for bacteria or mould spores to grow and are appropriate for GMP installations.

Flowcrete UK's HACCP International certified and ISO 22196 compliant polyurethane floor screed 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.



Flowseal EPW (0.12mm)

Flowseal EPW provides a coloured, gloss or matt finish at ground level in areas of light traffic. The water based seamless floor sealer can be applied onto damp substrates and is vapour permeable, allowing floors in light processing areas and storerooms to breathe.*



MAINTENANCE AND LIGHT PRODUCTION AREAS

Standard Colours





280

















Traffic Blue 466



TEMPERATURE RESISTANCE	
Tolerant of sustained temperatures up to 70°C	
VAPOUR PERMEABILITY	
ASTM:E96:90	20g/m²/mm/24hr
SLIP RESISTANCE	
BS 7976-2	Dry >40 Low slip potential



*Flowseal ESD EPW is also available for electrostatic dissipation. Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk



SLIP RESISTANCE Dry >40 BS 7976-2 (typical values for 4-S rubber slider) **WEAR RESISTANCE** EN 13892-5 Abrasion quantity < 1 cm² IMPACT RESISTANCE EN ISO 6272 10 N/m



*Flowcoat CR is available for additional chemical resistance. Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk

Flowcoat SF41 (0.35mm)

A high performance, solvent free epoxy resin coating that can deliver an anti-slip profile by inclusion of graded aggregate between coats. Flowcoat SF41 is also hard wearing against sustained forklift traffic, as well as chemical and abrasion resistant.*



CHEMICAL AND EQUIPMENT STORAGE AREAS

Standard Colours



466



Flowshield SL (2mm)

Flowshield SL delivers a glossy, hygienic, hard wearing and self-smoothing floor finish. Suited to use in areas subject to medium to heavy duty foot, trolley, pallet truck and rubber wheeled forklift traffic.*



PRODUCTION AREAS AND LABORATORIES

Standard Colors







Beige 326



Forest Green 754



Goosewing Grey 222



Dark Grey 281



Tile Red 637



Traffic Blue 466

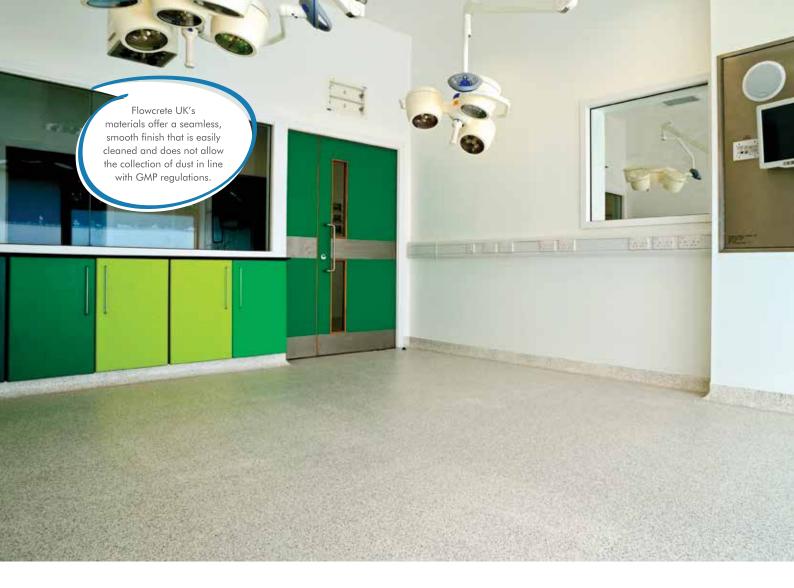


SURFACE HARDNESS	
EN 13892-6	>400 N/mm²
IMPACT RESISTANCE	
EN ISO 6272	15Nm
COMPRESSIVE STRENGTH	
EN 13892-2	55 N/mm²



*Flowshield ESD SL is also available for electrostatic dissipation. Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk

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



Peran Comfort (2-3mm)

A matt, self-smoothing flexible polyurethane resin floor finish, Peran Comfort has enhanced resistance to UV light and offers sound dampening properties. Ideal for a minimalist, modern, and contemporary environment and areas with intensive pedestrian traffic such as offices.



✓ ADMINISTRATIVE AREAS

Standard Colours



Signal White



Pebble Grey





ELONGATION AT BREAK	
DIN 53504	50– 100%
WEAR RESISTANCE	
EN 13892-4	Max. wear depth <100μm
SLIP RESISTANCE	
BS 7976-2	Dry >40 Low slip potential

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

Peran STB Compact (3mm)

Peran STB Compact is a hard wearing, decorative resin floor topping made up of colour stable quartz granules encapsulated in a clear resin binder. Peran STB Compact is a fast application scatter and power trowel system with a matt finish.*



PRODUCTION, MAINTENANCE AND STORAGE AREAS

Standard Colors







Grass Green 601



Light Grey 701







Beige 101



Mid Blue 501



Mid Grey 702



Black 901



IMPACT RESISTANCE	
EN ISO 6272	15Nm
WEAR RESISTANCE	
EN 13892-5	Abrasion quantity 1cm³
COMPRESSIVE STRENGTH	
EN 13892-2	>40 N/mm²



*Peran ESD STB Compact is also available for electrostatic dissipation.



*Peran STB Classic and Wet areas specifications are also available.

Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk



Flowshield FX (2-3mm)

A solvent-free, self-smoothing, epoxy resin, combined with decorative coloured particles. This hard wearing system is available in a matt or silk finish and provides excellent abrasion, UV and chemical resistance.



☑ CORRIDORS AND ADMINISTRATIVE AREAS

WEAR RESISTANCE EN ISO 5470-1 < 3000mg **SHORE D HARDNESS** DIN 53505 Approx. 90 **SLIP RESISTANCE** BS 7976-2 Dry >40 Low slip potential

Standard Colors



White SF57



Black SF56



Signal Grey SF35



Grey Beige SF26



Pigeon Blue SF38



Dusty Grey SF34



Moss Grey SF31



Quartz Grey SF36



SPEED OF CURE	
Walk on	1 hour
Full traffic & chemical cure	2–3 hours
COMPRESSIVE STRENGTH	
EN 13892-2	60 N/mm²
SLIP RESISTANCE	
BS 7976-2	Dry >40 Low slip potential



*Flowfast Quartz Structure/Wet areas is also available. Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk

Flowfast Quartz (4mm)

A hard wearing, decorative and very fast curing MMA flooring system that delivers a decorative matt finish. Flowfast Quartz consists of durable colour stable quartz granules encapsulated in a clear resin binder and delivers a fully trafficable surface just 60 minutes from application.*

LABORATORIES, GOWNING ROOMS AND AIRLOCKS

Standard Colors



Grass Green

601





Beige 101



Biscuit 102



Dark Grey

703

Mid Blue

501

Mid Grey 702



901



Flowfresh SL & MF (2, 4-6mm)

Flowfresh SL and MF are medium duty chemically resistant, antimicrobial treated polyurethane resin finishes. The non-tainting, non-dusting surface provides an easy-to-clean surface with impressive durability under traffic and heavy plant machinery.*

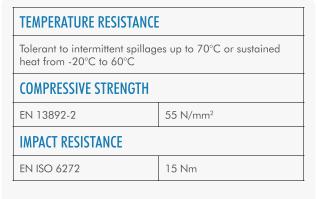


WET AND DRY PRODUCTION AREAS

Standard Colors









*Flowfresh SR is also available for slip resistance Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk

Flowchem VE

Exposure to concentrated acids, alkalis, aggressive solvents and extreme heat can lead to severe degradation of the floor and wall coverings in any chemical processing environment, as well as metal walkways and structures and tank linings.

Flowcrete's unique shrinkage compensated Flowchem range of vinyl ester resins has been engineered to support the toughest of environments, offering first class resistance to most corrosive agents and delivering exceptional protection against their potentially irreparable damage even at high temperatures.

With a variety of systems to protect concrete floors and walls as well as metal structures the Flowchem VE range ensure a reliable and easily maintained finish.

What's more, with insulation, isolation and electrostatic performance benefits, the Flowchem VE range delivers the ultimate in antistatic corrosion protection to take on the chemical processing industries.

- ✓ Aggressive Production Areas
- ✓ Tank Farms
- ✓ Chemical Processing

- ✓ Primary and Secondary Storage
- ✓ Waste Processing
- ✓ Water Treatment



Deckshield ID is a flexible, solvent free polyurethane car park deck coating system for intermediate decks of multi storey structures. Deckshield ID cosmetically enhances and reduces noise, making multi storey car parks brighter, safer environments to visit.*



PARKING STRUCTURES AND LOADING AREAS

Standard Colors







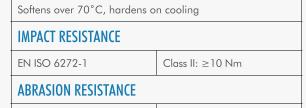




Forest Green

Traffic Purple

Traffic Blue





TEMPERATURE RESISTANCE

Weight loss <3000mg using H22 wheel, 1000 cycles, load 1000g



*Fast cure MMA grade is also available. Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk







TEMPERATURE RESISTANCE Tolerant to intermittent spillages up to 120°C or sustained heat from -40°C to 105°C **IMPACT RESISTANCE** 20 Nm EN ISO 6272 **SLIP RESISTANCE** BS 7976-2 Dry > 40



Mondéco TZ (7mm)

A seamless antimicrobial polyurethane terrazzo floor finish that is resistant to high temperatures and steam cleaning. Ideal for industrial applications such as chemical and pharmaceutical processing areas where floors are subject to hot fluid spillages, heavy traffic, impact and aggressive cleaning agents.*



PROCESSING AREAS

Standard Colors









Ochre





Mid Grey Tile Red

Mondéco Earth (7-8mm)

Mondéco Earth is a decorative epoxy terrazzo floor finish containing granite and flint aggregates. Providing a highly resistant surface, this system is suitable for use in pharmaceutical production areas as well as in the healthcare industry, where hygiene and durability are of key concern.*



PRODUCTION AREAS

Standard Colors









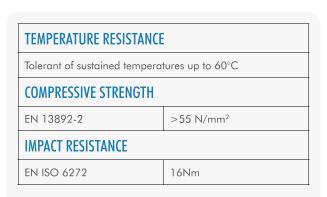
Dusty Grey



Agate Grey



Oyster White Chilli Pepper





*Mondéco ESD Earth is also available for electrostatic dissipation. Please contact your local Flowcrete representative for further information. A full technical profile is available at www.flowcrete.co.uk







Flowcrete Group

Flowcrete Group is the world's leading specialist in seamless resin floor, wall and coving solutions as well as other specialist coating technologies with operations on six continents.

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