

CHEMFIT FLOOR 2430SG

Two Part, Water Dispersed, Solvent Containing, Colored Epoxy Coating – For Medium to Heavy Mechanical & Chemical Exposure in Production Facilities, Workshops, Warehouses & Car Parks

PRODUCT DESCRIPTION

ChemFit Floor 2430SG is a two part, water dispersed, solvent containing, colored epoxy coating formulated for areas requiring protection against medium to heavy mechanical and chemical exposure. This high-performance coating provides a durable, seamless, and decorative finish for concrete substrates. The water dispersed formulation offers lower odor compared to solvent-based systems while maintaining excellent chemical resistance and mechanical properties. It is specifically designed for demanding environments in production facilities, workshops, warehouses, and car parks where resistance to oils, chemicals, and heavy traffic is essential.

PRIMARY APPLICATIONS

ChemFit Floor 2430SG is recommended for use in conditions such as:

- Production facilities and manufacturing plants
- Industrial workshops and maintenance areas
- Warehouses and distribution centers
- Car parks and parking decks (ramps, turning circles, parking bays)
- Loading bays and logistics centers
- Heavy-duty industrial areas with forklift traffic
- Areas requiring resistance to oils, greases, and chemicals

KEY FEATURES AND BENEFITS

- **Two part epoxy** – High mechanical strength and chemical resistance
- **Water dispersed** – Lower odor compared to solvent-based systems; user-friendly application
- **Colored finish** – Seamless, attractive, and easy-to-clean surface
- **Heavy-duty performance** – Outstanding abrasion and impact resistance
- **Chemical resistance** – Resists oils, greases, fuels, and mild industrial chemicals
- **Slip-resistant finish** – Can be combined with aggregate broadcast for anti-skid surface
- **Good pot life** – Adequate working time for medium to large areas
- **Versatile** – Suitable for broadcast systems and as a standalone coating
- **Available in wide range of colors** – Custom RAL colors available

MECHANICAL PROPERTIES

Property	Value
Compressive Strength	> 50 N/mm ²
Flexural Strength	> 25 N/mm ²
Adhesion to Concrete	> 1.5 N/mm ² (substrate failure typical)
Shore D Hardness	> 75
Abrasion Resistance	Excellent for heavy forklift traffic

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Part A: Pigmented liquid; Part B: Clear/Amber liquid
Color	Range of standard and custom colors available
Basis	Two part, water dispersed epoxy resin
Mix Ratio	Refer to product label (20 kg unit: Part A + Part B)
Solids Content	Approx. 65 – 75% (by weight)
Pot Life (at +20°C)	30 – 40 minutes
Touch Dry (at +20°C)	6 – 10 hours
Recoat Time (at +20°C)	12 – 24 hours
Light Foot Traffic	18 – 24 hours
Full Chemical Cure	7 days
Application Temperature	+10°C to +35°C
Relative Humidity	< 85% max.
Substrate Moisture	< 4% (no rising moisture)
Substrate Temperature	≥3°C above dew point

CHEMICAL RESISTANCE

Chemical	Resistance
Oils and greases	Excellent
Fuels (diesel, petrol)	Good
Dilute acids (10%)	Good
Dilute alkalis (10%)	Good
Water and salt water	Excellent
Industrial detergents	Good

PACKAGING AND STORAGE

Packaging:

- 20 kg unit (pre-weighed Part A + Part B)

Storage:

- Store in original sealed containers at +10°C to +25°C
- Protect from direct sunlight, moisture, and freezing
- Store in dry conditions

Shelf life: 12 months from date of manufacture when stored properly

DOSAGE AND COVERAGE RATES

Application	Mix Ratio (Base : Filler)	Consumption (approx.)	Coverage per 20 kg unit
Single coat (self-smoothing)	Neat (1:0)	0.25 – 0.35 kg/m ²	60 – 80 m ²
Two coat system	Neat (1:0)	0.50 – 0.70 kg/m ² total	30 – 40 m ²
Broadcast base coat (with sand)	1:0.8 (Base : Sand)	1.8 – 2.2 kg/m ²	9 – 11 m ²

Recommended thickness per coat: ~0.15 mm

NOTE: Coverage is theoretical and does not account for substrate porosity, surface profile, or wastage.

APPLICATION GUIDELINES

Surface Preparation:

- Substrate must be sound, clean, dry, and free from dust, oil, grease, laitance, curing compounds, and loose particles
- Mechanically abrade (shot blasting or grinding) to achieve open texture (CSP 2-3)
- Concrete compressive strength: minimum 25 N/mm²; tensile strength: minimum 1.5 N/mm²
- For new concrete/screed, allow minimum 7 days before application
- Vacuum thoroughly to remove all dust
- Do not apply to substrates with rising moisture (< 4% moisture content)

Priming:

- For porous or dusty substrates, apply compatible epoxy primer (e.g., **ChemFit EpoxyPrime 1400** or **ChemFit Floor 155WN**)
- For broadcast systems, prime with neat **ChemFit Floor 2430SG** at 0.2-0.3 kg/m²
- Allow primer to become tacky before applying base coat

Mixing:

- Thoroughly pre-mix Part A (resin) before combining
- Add Part B (hardener) to Part A according to label ratio
- Mix with low-speed drill (300-400 rpm) for 2-3 minutes until uniform
- Scrape sides and bottom during mixing; avoid air entrapment
- For broadcast system: add clean, dry, graded silica sand (0.3-0.7 mm) at specified ratio and mix for further 2 minutes
- Use within pot life (30-40 minutes at +20°C)

Application:

- **Self-smoothing coat:** Pour material onto prepared substrate; spread using short-nap roller or squeegee; use spiked roller to remove air bubbles
- **Broadcast system:** Apply base coat at 1.8-2.2 kg/m²; broadcast aggregates into wet coating; allow to cure; vacuum excess; apply seal coat (neat material at 0.3-0.4 kg/m²)
- For slip-resistant finish: scatter fine silica sand into wet top coat
- Apply in sections to maintain wet edge
- For large projects, use same production batch to minimize color variation

Curing:

- Protect from dust, moisture, and mechanical damage during cure
- Light foot traffic: 18-24 hours at +20°C
- Light wheeled traffic: 3 days
- Full chemical resistance: 7 days
- Do not apply below +10°C or if relative humidity exceeds 85%
- Do not apply if substrate temperature is below dew point (+3°C margin)

HEALTH AND SAFETY

Water dispersed epoxy may cause skin and eye sensitization. If eye contact: rinse 15-20 min, seek medical aid. Skin contact: wash with soap and water. If swallowed: do not induce vomiting; rinse mouth, drink water, seek medical aid. Use nitrile gloves, safety glasses, protective clothing. Ensure ventilation. Refer SDS.

CLEANG OF TOOLS

Clean all brushes, rollers, mixing equipment, and spillages with water immediately after use before material cures. Dried material requires mechanical removal. Dispose of cleaning materials in accordance with local regulations.

APPROVALS AND STANDARDS

ChemFit Floor 2430SG complies with the following standards:

- **EN 1504-2** – Surface protection systems for concrete (Coating)
- **ASTM D4541** – Pull-off adhesion strength testing
- **ISO 4624** – Tensile adhesion strength testing
- **EN 13892** – Abrasion resistance testing
- **ISO 9001** – Quality management system certified
- Two part, water dispersed, solvent containing, colored epoxy coating
- Suitable for medium to heavy mechanical and chemical exposure in production facilities, workshops, warehouses, and car parks

LEGAL NOTES

All technical data provided in this Product Data Sheet is based on laboratory testing under controlled conditions. Actual field performance may vary due to differences in substrates, application methods, site conditions, and environmental factors. ChemFit makes no warranty of merchantability or fitness for a particular purpose. Users shall conduct their own trials to validate product suitability for the intended application. ChemFit reserves the right to modify product specifications without prior notice. For the most current documentation, request the latest Product Data Sheet and Safety Data Sheet from ChemFit.

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