

CCM Flexible Epoxy

1. Product Description

CCM Flexible Epoxy is a **high-solids, modified epoxy coating** designed to provide **exceptional flexibility, durability, crack resistance, and chemical resistance**.

It cures to form a tough, abrasion-resistant surface that maintains integrity under mechanical stress and temperature variation.

2. Recommended Use

- As a **protective lining or coating** for concrete, steel, or composite surfaces in dry bulk or general industrial service.
- For areas requiring both **chemical protection** and **movement tolerance** such as expansion zones, tanks, and structural elements.
- To extend the lifespan of shipping containers exposed to the sun
- Terrazzo flooring

Service Temperature:

- Maximum (dry exposure only): 120 °C

Extremely high or low temperatures may gradually reduce flexibility and mechanical strength.

3. Key Features and Benefits

- High flexibility and impact resistance
 - Excellent adhesion to properly prepared surfaces
 - Resists moisture, abrasion, and a wide range of chemicals
 - Easy-to-apply two-component system
 - Semi-gloss decorative finish
-

4. Safety and Handling

Flash Point (In container): 27 °C

Handle with care. Read all container labels before use and follow applicable workplace safety regulations. Always refer to the **Safety Data Sheet (SDS)** for personal protective equipment and handling advice.

For professional and industrial use only.

5. Product Information

Property	Details
Product Code	N/A
Components	N/A
Mix Ratio (by volume)	Mix only supplied parts A and B
Colour / Finish	Semi-gloss (Other colours available on request)
Volume Solids	>99%
Density	1.20 - 1.50 kg/L
Recommended Dry Film Thickness	125 micron
Theoretical Coverage	≈ 5 m ² /L at 125 micron DFT (≈ 204 ft ² /US gal)
Thinner	CCM Epoxy thinner
Cleaner	CCM Epoxy thinner
Pot Life @ 20 °C	30 minutes

Colour stability may vary with heat or chemical exposure.

6. Surface Preparation

- Remove oil, grease, salts, and loose materials by suitable cleaning.
 - Ensure surfaces are clean, dry, and free of contaminants before application.
 - For bare metal or concrete, prepare to a clean, uniform surface profile to promote adhesion.
 - Remove dust and residues prior to coating.
-

7. Application Details

Method	Thinning (Max Vol.)	Notes
Airless Spray	N/A	N/A
Brush / Roller	N/A	N/A
Plural Component Spray	N/A	N/A

Typical Approximate Film Build

Description	DFT	WFT	Coverage (approx.)
Recommended	125 µm (5 mil)	200 µm (8 mil)	5.0 m ² /L

8. Application Conditions

- Temperature: 5 - 40 °C
- Apply only to dry surfaces
- Maintain adequate ventilation during application and curing.

9. Drying and Curing

Condition	20 °C	25 °C
Touch Dry	N/A	N/A
Hard Dry	N/A	N/A
Full Cure	N/A	N/A
Overcoat Interval (Min / Max)	N/A	N/A

If the maximum interval is exceeded, lightly abrade the surface to ensure adhesion.
Ventilation is essential for correct curing.

10. Performance Summary

- High chemical and abrasion resistance
 - Excellent adhesion to prepared concrete and metal
 - Maintains flexibility under stress and temperature fluctuation
 - Resists chalking and moisture under normal exposure
-

11. Storage and Shelf Life

Component	Shelf Life (Unopened)
Base	48 months
Curing Agent	24 months

Storage Conditions:

- Store upright in a cool, dry, well-ventilated area away from direct sunlight and ignition sources.
 - Ideal storage temperature: 5 – 40 °C.
 - Keep containers sealed when not in use.
-

12. Environmental Information

- Low-VOC, high-solids formulation.
 - Dispose of residues and empty containers in accordance with local environmental regulations.
 - Avoid release into drains and waterways.
-

13. Disclaimer

The information provided is based on current knowledge and practical experience. CCM Coatings Ltd makes no warranty beyond the value of the supplied goods. Users are responsible for determining the suitability of the product for specific applications and conditions. Always refer to the latest version of this TDS and the associated SDS on ccmcoatings.com before use.