

Document Information

Item	Description
Document Title	Application Guide – CATEPOX® Heat- and Wear-Resistant Coating
Document ID	SBC-AG-CAT-001
Version	1.0
Issue Date	July 2026
Document Status	Approved
Language	English

1. Purpose

This Application Guide provides technical instructions for the correct preparation, mixing, application and curing of the CATEPOX® Heat- and Wear-Resistant Coating system to ensure optimum corrosion protection, mechanical durability and long-term coating performance.

2. Scope

This guide applies to the application of CATEPOX® coating systems on:

- Structural steel;
 - Concrete substrates;
 - Timber surfaces;
 - Industrial equipment;
 - Storage tanks;
 - Pipelines;
 - Agricultural machinery;
 - Industrial facilities exposed to aggressive environmental conditions.
-

3. Surface Preparation

Steel Surfaces

Steel substrates shall be clean, dry and free from:

- Rust;
- Mill scale;
- Loose or poorly adhered coatings;
- Oil and grease;
- Dust and other contaminants.

Proper surface preparation is essential to achieve the designed adhesion and long-term corrosion protection.

Concrete Surfaces

Concrete shall be:

- Fully cured;
- Dry;
- Clean;
- Free from dust and loose particles.

Highly absorbent substrates should receive a penetrating primer coat before application.

Timber Surfaces

Timber shall be:

- Dry;
- Clean;
- Dust-free.

Where required, timber should be impregnated using diluted CATEPOX® prior to the application of the coating system.

Aluminium and Non-Ferrous Metals

A suitable adhesion-promoting primer shall be applied before coating.

4. Mixing

Before application, Components A and B shall be thoroughly mixed.

Mixing ratio

- 1 part Component A

- 1 part Component B

Mix mechanically until a completely homogeneous material is obtained.

The mixed material shall be applied within the specified pot life.

5. Application

CATEPOX® may be applied by:

- Brush;
- Roller;
- Conventional spray;
- Airless spray.

The coating shall be applied uniformly to achieve the specified dry film thickness and complete substrate coverage.

Subsequent coats shall only be applied after the previous layer has reached the appropriate drying stage.

6. Application Conditions

Application is recommended under the following conditions:

- Dry substrate;
- No rain or condensation;
- Adequate ventilation;
- Protection against moisture during curing.

The substrate temperature shall always remain above the dew point throughout application and curing.

7. Drying and Curing

At 20 °C

Stage	Time
Surface dry	Maximum 5 hours
Through dry	Maximum 48 hours
Full cure	Maximum 12 days

At 70 °C

Stage	Time
-------	------

Full cure	Approximately 5 hours
-----------	-----------------------

8. Quality Control

During application the following should be verified:

- Surface preparation;
- Mixing ratio;
- Film thickness;
- Uniform coverage;
- Drying times;
- Coating continuity.

Where required, adhesion testing may be carried out in accordance with EN ISO 2409 or ISO 4624.

9. Cleaning

Application equipment shall be cleaned immediately after use with the manufacturer's recommended thinner.

Fully cured coating can only be removed mechanically.

10. Health and Safety

During handling and application:

- Ensure adequate ventilation;
- Wear appropriate protective gloves;
- Wear eye protection;
- Use respiratory protection where ventilation is insufficient.

For complete information regarding hazards, handling, storage, transport and disposal, refer to the Safety Data Sheets for Components A and B.

11. Related Documents

- Technical Data Sheet (TDS)
- Product Description
- Safety Data Sheet – Component A

- Safety Data Sheet – Component B
 - System Specification
 - Laboratory Test Reports
-

12. Disclaimer

This Application Guide provides general recommendations for the correct use of the CATEPOX® coating system. Actual performance depends on substrate condition, surface preparation, environmental conditions, application technique and compliance with this guide. Users are responsible for verifying the suitability of the product for the intended application and ensuring that all work is carried out in accordance with applicable regulations and good engineering practice.