SBC

TECHNICAL DATA SHEET (TDS)

CATEPOX® HEAT- AND WEAR-RESISTANT COATING

Document Information

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1. Product Identification

Product Name

CATEPOX® Heat- and Wear-Resistant Coating

Product Type

Two-component epoxy–polyamide corrosion protective coating.

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2. Intended Use

CATEPOX® Heat- and Wear-Resistant Coating is a two-component protective coating system developed for the long-term corrosion protection of steel, concrete, timber and other suitably prepared substrates.

After curing, the coating forms a durable protective layer with excellent mechanical strength, wear resistance, heat resistance and outstanding resistance to water and a wide range of chemicals. The product is suitable for industrial, agricultural and infrastructure applications requiring long-term corrosion protection.

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3. Typical Applications

Recommended for:

- Structural steel;

- Bridges and supporting structures;
- Pipelines;
- Oil and gas storage tanks;
- Industrial machinery and equipment;
- Engine rooms;
- Agricultural machinery;
- Silos and storage facilities;
- Chemical processing equipment;
- Concrete structures;
- Indoor and outdoor industrial installations exposed to severe environmental conditions.

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4. Technical Characteristics

Property	**Value**
Product type	Two-component epoxy–polyamide coating
Mixing ratio	1 part Component A : 1 part Component B (by volume)
Pot life (20 °C)	Minimum 3 hours
Practical flow time	Maximum 10 minutes
Surface dry (20 °C)	Maximum 5 hours
Through dry (20 °C)	Maximum 48 hours
Full cure (20 °C)	Maximum 12 days
Full cure (70 °C)	Approximately 5 hours
Adhesion (EN ISO 2409)	Classification 0
Flexibility (Erichsen)	4 mm
Impact resistance	Minimum 30 cm (1000 g)
Heat resistance	Continuous up to 100 °C; intermittent up to 120 °C
Salt spray resistance	Minimum 500 hours
Theoretical coverage	Approx. 5 m²/L per coat (100 µm DFT)

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5. Physical Properties

Component A

Property	Value
Appearance	Yellowish liquid
Non-volatile content	Minimum 60 %
Flow time	Minimum 90 s
Density	1.05–1.09 g/cm³

Component B

Property	Value
Appearance	Black or grey liquid
Non-volatile content	Minimum 62 %
Flow time	Minimum 60 s
Density	1.09–1.23 g/cm³

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6. Chemical Resistance

The fully cured coating provides excellent resistance to:

- Water;
- Petrol (gasoline);
- Mineral oils;
- Petroleum derivatives;
- Natural gas;
- Organic fertilizers;
- Sodium chloride solutions;
- Sodium hydroxide solutions;
- Sulphuric acid at the specified test concentrations.

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7. Surface Preparation

Steel surfaces shall be cleaned to remove rust, mill scale, grease and other contaminants before application.

Timber surfaces should be dry, clean and impregnated with diluted CATEPOX® before coating.

Concrete, stone and other mineral substrates generally require cleaning and, where necessary, a penetrating primer coat to ensure optimum adhesion.

Light metals and non-ferrous substrates shall be treated with a suitable adhesion-promoting primer before coating.

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8. Application

Mix Components A and B thoroughly in the specified mixing ratio before use.

The coating may be applied by:

- Brush;
- Roller;
- Conventional or airless spray.

Apply only to clean, dry and properly prepared substrates under suitable environmental conditions.

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9. Storage

Store in the original, unopened container in a dry, cool and well-ventilated location, protected from direct sunlight.

Recommended maximum storage period:

36 months from the date of manufacture.

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10. Packaging

- 1 L metal can
- 22 kg steel container

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11. Health and Safety

Appropriate personal protective equipment shall be worn during handling and application.

The product shall be used in accordance with applicable occupational health, safety and environmental regulations.

For detailed information regarding hazards, handling, storage, transport, first aid and disposal, refer to the Safety Data Sheets for **Component A** and **Component B**.

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12. Related Documents

- Product Description – CATEPOX® Heat- and Wear-Resistant Coating
- Safety Data Sheet – Component A

- Safety Data Sheet – Component B
- Application Guide
- System Specification
- Test Reports

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13. Disclaimer

The information contained in this Technical Data Sheet is based on laboratory testing, manufacturing experience and technical knowledge available at the time of publication. Actual product performance may vary depending on substrate condition, application method, environmental conditions and workmanship. It is the responsibility of the user to verify that the product is suitable for the intended application.