

SBC

PRODUCT DESCRIPTION

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.

Intended Use

Designed for the long-term corrosion protection and mechanical protection of steel, concrete and other structural substrates exposed to demanding industrial environments.

2. Product Description

CATEPOX® Heat- and Wear-Resistant Coating is a high-performance, two-component epoxy–polyamide coating system developed to provide long-term corrosion protection and mechanical durability for industrial structures.

After curing, the coating forms a dense, continuous protective film with excellent mechanical strength, wear resistance, water resistance and chemical resistance. The coating system is specifically

designed for structures exposed to severe mechanical loads, aggressive industrial atmospheres and demanding operating conditions.

Due to its passivating properties, CATEPOX® Heat- and Wear-Resistant Coating may also serve as an anti-corrosion primer on steel substrates, eliminating the need for conventional primer systems in many applications. The coating provides a thick protective layer, contributing to extended service life and reduced maintenance requirements.

3. Main Characteristics

- Two-component epoxy–polyamide coating system
 - Excellent corrosion protection
 - High mechanical strength
 - Excellent wear resistance
 - Good heat resistance
 - Excellent water resistance
 - High chemical resistance
 - Resistant to mineral oils and petroleum derivatives
 - Capable of forming thick protective coatings
 - Long-term durability under industrial service conditions
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4. Typical Applications

CATEPOX® Heat- and Wear-Resistant Coating is suitable for the protection of:

- steel structures;
- bridges;
- industrial pipelines;
- storage tanks;
- machinery and equipment;
- engine rooms;
- silos;
- agricultural equipment;
- chemical processing equipment;
- industrial floors;
- concrete structures;

- indoor and outdoor industrial installations requiring long-term corrosion protection.
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5. Performance Characteristics

Laboratory testing has demonstrated excellent adhesion performance of the CATEPOX® coating system.

Pull-off adhesion testing performed in accordance with **ISO 4624** produced results significantly exceeding the generally accepted minimum performance requirements for protective coating systems.

Cross-cut adhesion testing performed according to **EN ISO 2409** achieved **Classification 0**, indicating excellent adhesion between the coating and the substrate.

6. Related Documents

- CATEPOX® Heat- and Wear-Resistant Coating – Technical Data Sheet (TDS)
 - National Technical Assessment (NTA) No. **361313/MKEH-PMFH-16/8/2015/K**
 - Adhesion Test Report (ISO 4624 / EN ISO 2409)
 - Safety Data Sheet (SDS)
 - System Specification
 - Application Guide
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7. Applicable Standards

- EN ISO 2409 – Cross-cut adhesion test
- ISO 4624 – Pull-off adhesion test
- EN ISO 2812 – Resistance to liquids
- EN ISO 9227 – Salt spray test
- EN ISO 9117 – Drying tests
- EN ISO 2811 – Density determination
- EN ISO 3251 – Determination of non-volatile matter
- EN ISO 2431 – Flow cup determination
- EN ISO 6272 – Impact resistance test