

## Product Technical Specification

Revision Date:

TDS Number:

Product name:Single-component moisture barrier coating for cold storage

version: V 1.0

### Product profile

Single-component Moisture Barrier Coating for Cold Storage is a modified polyurethane-based coating that chemically reacts with water molecules to generate insoluble and infusible polyurea. It primarily utilizes moisture from concrete substrates and ambient air to penetrate, cure, and expand, forming a highly adhesive waterproof structural layer through cross-linking polymerization.

### Product Application

Single-component Moisture Barrier Coating for Cold Storage is a modified polyurethane coating designed for application as a moisture barrier layer on ground surfaces, walls, and roofs of various structures. Prior to using the Single-component Moisture Barrier Coating for Cold Storage, mandatory testing must be conducted to validate the reliability of the coating system in specific engineering applications.

### Performance Indicators

Item	Indicator
Coating Film Condition	Uniform and homogeneous,free from particles and pores
Solid Content, %	≥60
Surface Dry Time, h	≤12
Hard Dry Time, h	≤24

The values provided in this document are typical test results. Actual data may vary slightly depending on environmental conditions. For our company's products, the listed data are not legally binding in any respect.

## **Usage Precautions**

The moisture-proof vapor barrier coating (single-component) for cold storage is a moisture-curing material and should be stored in a sealed, dry, and cool place with good ventilation. Construction is not advisable on rainy days. To prevent material condensation and waste, the principle of "use as needed, pour as needed, and seal as needed" should be followed.

Before formal construction, the buyer must conduct tests under conditions identical to the actual construction environment to ensure the reliability of the material for this specific project. Upon commencing formal construction, the buyer will be deemed to have confirmed that the product has passed performance inspections. If the above procedures are not followed, all responsibilities shall be borne by the buyer.

## **Packaging Specifications**

200L red steel drum

## **Storage (Usage) Precautions**

It should be stored in a tightly sealed container to avoid moisture absorption. Therefore, during storage and transportation, the container must remain dry and airtight.

The cold storage moisture barrier coating (single-component) should be stored sealed in a cool, ventilated place at room temperature (5–35 °C), protected from direct sunlight. Prolonged storage above 40 °C should be avoided, as it may lead to the formation of insoluble solids and increased viscosity.

## **Shelf Life**

From the date of production, the shelf life of the cold storage moisture barrier coating (single-component) is 3 months when stored under specified conditions. After

3 months, it can continue to be used if inspection results are qualified.

## **Safety Precautions**

Direct contact with the cold storage moisture-proof vapor barrier coating (single-component) may cause moderate eye irritation and mild skin irritation, and can lead to skin allergies. Repeated inhalation of high-concentration vapors may cause respiratory allergies. Immediate medical attention is required, with anti-inflammatory and anti-allergic symptomatic treatments.

When handling, exercise caution to avoid direct skin contact and splashing into the eyes. Necessary protective equipment (gloves, goggles, work clothes, etc.) must be worn.

In case of skin or eye contact, rinse immediately with plenty of water for at least 15 minutes. Wash the skin with soap and water, and seek medical attention if necessary. If ingested, seek immediate medical treatment for symptomatic care.

## **Fire and explosion hazards**

This product is not classified as a flammable liquid, explosive, oxidizing agent, corrosive, toxic substance, or radioactive hazard during storage and transportation, and is not considered a hazardous material.

**Extinguishing Media:** Carbon dioxide, foam, or dry chemical powder fire extinguishers may be used. If no other extinguishing agents are available, large amounts of water spray can be applied. Once the fire is extinguished, spilled material should be cleaned up (refer to "Spill and Leakage Handling").

**Firefighting Procedure:** Normal protective measures.

## **Spill and Leakage Handling**

For small spills or leaked material, rinse away with water. In case of a large spill, contain and recover the material, then clean the contaminated area with water or detergent. Disposal of waste material must comply with local government environmental regulations.

**For more information, please refer to the Safety Data Sheet (SDS) of our product or contact our Customer Service Center.**

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The specifications and data provided in this document are based on our current technical knowledge and practical experience, and are for reference only. The guaranteed specifications shall be subject to the quality assurance certificate or the supply contract.

The customer is responsible for testing the products purchased from our company to verify their suitability for their intended processes and applications, as well as their ability to achieve the desired results. Further application and processing of our products are beyond our control. Therefore, our liability is limited solely to the products delivered by us and used by the customer. We shall not be held liable for any indirect losses arising from the use of our products as raw materials in production processes.

Our technical support and customer service team are available to provide consultation and application-related technical services. Please feel free to contact us by letter or phone.

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