

## Technical Data Sheet (TDS)

### 1. Description

BH2 Waterborne Rubber Asphalt Waterproof Coating is a single-component waterproof coating formulated using polymer-modified asphalt technology. This product combines the environmental benefits and application convenience of waterborne coatings. With the addition of various special additives, it features strong adhesion and high elongation after curing. It is particularly suitable for use on underground vertical walls in combination with membranes and is best applied using mechanized spraying methods.

### 2. Packing & Specification

| Item                     | Description         |
|--------------------------|---------------------|
| Physical State           | Liquid              |
| Colour                   | Black / Black-brown |
| Packaging                | Plastic bucket      |
| Packaging Specifications | 50kg/bucket         |

### 3. Technical Information

Product complies with the requirements outlined in the Q/SY YHF 0135-2021 'High-Adhesion Anti-Slip Waterborne Rubber Asphalt Waterproof Coating'.

| Item                        | Technical Index                           | Typical Value |
|-----------------------------|---|---------------|
| Solid Content               | $\geq 50\%$                               | 56%           |
| Heat Resistance             | 110°C No sliding; No flowing; No dripping | Passed        |
| Surface Drying Time         | $\leq 2\text{h}$                          | 0.5h          |
| Full Drying Time            | $\leq 4\text{h}$                          | 2h            |
| Low-temperature Flexibility | -5°C                                      | Passed        |
| Elongation at Break         | $\geq 800\%$                              | 1090%         |

### 4. Area of Application

Suitable for waterproofing underground industrial and civil engineering projects, this product is used in combination with self-adhesive or torch-applied membranes to form a 'coating + membrane' composite waterproofing system.

### 5. Product Features & Benefits

- Single-component product, ready to use straight from the bucket, offering easy application.

- Water-based product with no solvents, allowing for cold application that is safe and environmentally friendly. It is easy to achieve the designed thickness on vertical surfaces, dries quickly, and can be applied on damp substrates, saving construction time.
- The coating has high adhesion strength to both the substrate and the membrane, providing strong resistance to slippage on vertical surfaces.
- The product has high elongation, effectively resisting cracking and deformation caused by substrate stress.

## 6. Construction application

### 【Reference Consumption】

The laboratory theoretical consumption for a 1.0mm thick coating is approximately 1.8-2.2 kg/m<sup>2</sup>. Actual consumption may vary depending on the condition of the on-site substrate.

### 【Construction Process】

Substrate Preparation → Coating + Non-woven Fabric Additional Layer for Details → First Coat

Application → Second Coat Application → Apply multiple coats to achieve the designed thickness →

Inspection and Acceptance → Waterproof Membrane Installation → Overlap Joint Treatment → Inspection and Acceptance → Finished Product Protection

### 【Key Construction Procedures】

1. The substrate should be solid, flat, free of dust and oil. Irregularities and misaligned board seams should be ground smooth or repaired. If there are pinholes on the surface, the first coat should be applied by roller to ensure the coating fully penetrates the defects.
2. Additional layers for internal and external corners, construction joints, etc., should be reinforced with ‘coating + non-woven fabric’ (non-woven fabric should be 60-80 g/m<sup>2</sup>). First, apply a coat of the waterproof coating to the detailed area, and before it dries, apply the non-woven fabric reinforcement layer. Press it firmly, and then apply another coat of the waterproof coating.
3. Mechanized spraying is the best method for application (rolling can also be used), using a ‘cross-spraying’ method. Each coat should be applied evenly without exposing the substrate or accumulating material. The number of coats required depends on the designed thickness and the construction conditions. Rolling requires more coats than spraying.
4. After the previous coat has dried, subsequent coats can be applied. Once the coating is dry and has passed inspection, the membrane can be installed.
5. Appropriate fixation measures should be set, especially at the ends of vertical membranes, where mechanical fixation should be used. Seal with sealant. After completing the waterproof layer, effective waterproof protection measures such as polystyrene boards and brick protection walls should be taken.

## 7. Transportation & Storage

- During transportation, the product should be protected from sun, rain, and frost, and should not be subjected to squeezing or collisions. The packaging must remain intact and comply with relevant transportation regulations.
- When storing the product, ensure it is kept in a well-ventilated and dry area, away from fire and heat sources. The storage temperature should be between 5-40 ° C. Prevent direct sunlight exposure and avoid freezing conditions, as these can affect the product's performance.
- Under normal transportation and storage conditions, the shelf life is 6 months from the date of production.

## 8. Matters Need Attention

- Do not dilute the coating with water.
- The drying time of the coating is significantly influenced by environmental humidity and ventilation conditions, with ventilation having a greater impact. In environments with poor air circulation and high humidity, such as during the rainy season, deep pits, and narrow spaces, forced ventilation measures (e.g., using blowers) can be implemented after application to accelerate the drying of the coating.
- The application temperature should be between 5° C and 35° C. Construction should not be carried out when the temperature is below 0° C or during the rainy season from June to August.
- The interval between applying the two coats of the coating should not exceed 24 hours.
- After the membrane installation, it should be pressed to remove air and ensure full adhesion.
- This product is not recommended for horizontal waterproofing projects due to the risk of sticking and blistering.

## 9. Quality, Health & Safety

Please read the safety manual carefully, our security experts will be pleased to give you advises about safety, health and environmental issues.

## 10. Product Responsibility

The above information and recommendations which are based on our experience are as for reference, they can't replace the customers' own experimental results. Since our company, our representatives or distributors can't control the transportation, storage, handling and use conditions of the products, the economic disputes and the quality accident caused by improper use can't be attributed to our suggest. In any application, the customer shall be responsible to comply with obligations of third-party intellectual property rights. Without our consent, anyone shall not provide technical information to third parties.

## 11. Other Information

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