

DESCRIPTION

YHBituRoof-4700 Exposed Multicolor Waterborne Asphalt Waterproofing Coating is a single-component water-based waterproof coating. It uses a high weather-resistant polymer emulsion as the base material, compounded with high-performance emulsified asphalt and weather-resistant additives. It is environmentally friendly, water-based, highly elastic, resistant to cracking, and suitable for roof repair work on concrete and metal roofs in civil buildings.

WHERE TO USE

It is suitable for roof repairs on concrete and metal roofs of civil buildings. This coating is designed for exposed applications. To enhance durability and performance, reinforcement with non-woven fabric is recommended.

CHARACTERISTICS AND PACKAGING

Item	Description
Physical State	Viscous liquid
Color	Maple Red / Cement Gray / Linen Gray
Packaging	Plastic drum
Package Size	20 kg/plastic drum+2kg Primer

ADVANTAGES

- **UV & Weather Resistant:** Suitable for exposed applications with excellent resistance to weathering.
- **Superior Physical Performance:** Highly elastic and crack-resistant, with strong bonding strength.
- **Excellent High and Low-Temperature Performance:** Effective in temperatures as low as -15°C and as high as 110°C.
- **Easy & Eco-Friendly Application:** Ready-to-use, water-based, environmentally friendly, and cold-applied for quick and safe installation.
- **Available in Multiple Colors:** Available in Maple Red, Cement Gray, and Linen Gray to meet different customer preferences.

PROPERTIES

Main Performance Indicators of the Product

Items	Test Method	Values
Solid Content [%]	ASTM D2939	≥65

Technical Data Sheet (TDS)

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Pull off Strength [MPa]	EN 1542:1999	≥1.0
Flexibility at low temperature (-15°C)	ASTM D1227	No cracking
Elongation at Break [%]	ASTM D412	≥500
Tensile Strength [MPa]	ASTM D412	≥1.2
Visual Observation after Expose	BS EN 16474-2	No cracking, delamination, blistering, bonding, or voids

NOTE: All values are based on test results determined under laboratory conditions and with product samples taken from original stock. Independent laboratory test values are available upon request.

APPLICATION INSTRUCTIONS

Reference dosage

Material consumption depends on the porosity and texture of the substrate. Typically, it is approximately 2.0-2.3kg/m² for a 1 mm dry film thickness.

Application Instructions

- **Substrate preparation:** The substrate should be clean, dry, sound, and free of all contaminants, such as dirt, oil, and grease. Surface defects, such as blowholes and voids, must be repaired. Filling of joints and surface leveling must be carried out before coating. It is recommended to use a water-based specialty primer to enhance the concrete substrate preparation.
- **Detailing:** First, apply the coating to detail areas such as deformation joints, water outlets, and concave and convex corners. Install fabric reinforcement between two wet coats to ensure thorough penetration. The total thickness of the composite coating layer should be at least 1 mm.
- **Coating application:** YHBituRoof-4700 is applied by rolling, brush or spray. Thoroughly mix using a mechanical mixer and Jiffy paddle at slow speeds until a homogeneous mixture and color is obtained. Use a cross-spraying technique to ensure smooth application, with each wet film layer not exceeding 1.0mm in thickness. The coating should be extended over the entire area, including previously detailed joints and cracks. The recoat time is normally 12 to 24 hours; however, low temperatures or low humidity may extend the waiting time. For best results apply next coat as soon as preceding coat is tack free and within the recoat window. Keep area clean and do not expose to rain or potential contamination between coats.

TRANSPORTATION AND STORAGE

The product should be stored in ventilated areas, protected from sunlight, rain, freezing and fire. Avoid collisions during transportation. The recommended storage temperature range is 5°C to 35°C. The shelf life is a minimum of 12 months under normal transportation and storage conditions.

PRECAUTIONS

Read the product label and Material Safety Data Sheet (MSDS) before using it. Users should acquaint themselves with all risks & safety regulations and conform to manufacturer's recommendations, material handling and storage specifications.

- Users must familiarize themselves with all risks, safety regulations, and adhere to the manufacturer's recommendations, including material handling and storage specifications.
- Once opened, the product should be used on the same day. Any remaining material must be properly sealed and used as soon as possible.
- The recommended construction temperature range is 5°C to 35°C. Construction is prohibited during rain, snow, or if such weather is predicted within 24 hours.
- Do not dilute the product with water or solvents, as this will compromise its performance.
- Ensure the waterproof layer is applied evenly. Avoid walking on the surface before it is fully dried to prevent damage to the waterproof layer.
- The complete drying time for each coat ranges from 2 to 12 hours, depending on ambient temperature and humidity. Extend drying time appropriately in humid environments.

HEALTH AND SAFETY

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

DISCLAIMER

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 suggestions. 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.