

Wanshield®6202

Single-Component Water-Based Polyurethane Waterproof Coating

Product Description

Wanshield®6202 Single-Component Water-Based Polyurethane Waterproof Coating is an eco-friendly aliphatic polyether polyurethane elastic waterproofing material. The product is non-toxic and odorless, featuring excellent adhesion, impermeability, and superior mechanical properties. It exhibits strong adhesion to mortar cement substrates, stone surfaces, and metal products. The product maintains stable chemical properties and shelf life, and after prolonged sunlight exposure, delivers high strength, offers significant elongation, provides excellent elasticity, and ensures superior waterproofing performance.

Product Characteristics

Single-component, cold-applied, non-toxic and odorless for safe use; Tough, highly elastic coating with excellent mechanical properties; Strong adhesion to brickwork, mortar, concrete, metal, foam boards, insulation layers, and more; Safe and simple application with short construction time.

Recommended Uses

Suitable for national key projects and general waterproofing applications, such as roofs, color-coated steel sheets, basements, civil defense projects, kitchens and bathrooms, culverts, tunnels, bridges, and water tanks.

Technical Specifications

Physical Parameters

Solids By Volume%	≥60
Surface Drying Time/h	≤4
Full Curing Time/h	≤12
Untreated Tensile Strength/MPa	≥3.0
Untreated Elongation at Break/%	≥500
Low-Temperature Flexibility/°C	-30°C No cracking
Bond Strength/MPa	≥1.2

Surface Preparation

Clean debris and loose mortar from the waterproof coating substrate. Repair severely uneven concrete surfaces.

Remove oil stains and debris from cement-based concrete structures.

If significant leaks are detected in the substrate, first apply leak-sealing materials before using this product to ensure project quality.

Thoroughly remove all surface stains and loose dust down to sound concrete.

For all concrete damaged by chemical exposure, loose sections, or contamination by any substance, remove down to sound concrete.

On old painted surfaces, completely grind off loose or incompatible old paint coatings to expose concrete. Clean, dry, and intact compatible coatings may remain.

For oil-contaminated surfaces where oil significantly impairs the adhesion of floor coatings to the substrate, the contaminated area must be completely removed and ground.

Application Guidance

Construction Method

Airless sprayer application.

Mixing Ratio

Single-component, ready to use upon opening. If separation is observed, stir thoroughly. For large surfaces, spray application is recommended. For areas unsuitable for spraying, use roller or trowel application.

Construction Conditions

Application temperature range: 5-30°C.

Apply at ambient temperatures. Avoid application below freezing point or under adverse conditions such as rain, fog, or sandstorms.

Application must be performed on concrete structures or sound cement mortar substrates. Do not apply directly to plaster surfaces. Substrates must be clean and free of loose dust, old coatings, dirt, grime, and other contaminants.

All concrete surfaces to be coated must be thoroughly inspected for structural defects, including formwork tie holes, cracks, honeycombed or pitted surfaces, pits, and uneven joints at construction seams. Such defects must be chiseled out, cleaned, sealed, reinforced, and leveled before proceeding with large-area waterproofing application.

Recommended Dosage

Single wet film thickness $\leq 1\text{mm}$. Excessive thickness may cause surface cracking. Apply 2-3 coats until the dry film thickness reaches 1-1.5mm. Material consumption is 2-3kg per square meter.

Construction Parameters

Drying times are measured under standard conditions (25°C, 60% humidity) and are provided for reference only. Drying rates vary significantly under different temperatures and humidity levels, and are also influenced by film thickness, ventilation conditions, and underlying coatings. Generally, drying times shorten as temperatures rise and lengthen as temperatures drop.

Before commencing the project, the buyer must conduct preliminary tests under conditions identical to the actual construction environment to ensure reliability for the specific project.

Ventilation

Ensure adequate ventilation throughout the work area for operator safety and proper product performance.

Packaging and Storage

Packaging

Plastic drum, 25kg.

Storage

Storage and Transportation Conditions: Coatings should be stored in sealed containers at 5-35 °C in a dry, cool, and well-ventilated environment. During transportation, materials should be stacked securely to ensure the cargo compartment remains dry, enclosed, and protected from moisture and freezing.

Shelf Life

When stored under specified conditions, the shelf life of the product in its original packaging is 6 months from the date of manufacture.

Safety Precautions

Warning

May cause eye and skin irritation. Vapors may cause respiratory irritation in sensitive individuals. May cause skin sensitization. Avoid breathing vapors. Avoid contact with eyes and skin. Use eye, ear, and skin protection, and wear an appropriate respirator to avoid potential respiratory irritation. After use, thoroughly wash skin with water. If discomfort occurs, consult a physician. Wash clothing before reuse. If breathing has stopped, perform artificial respiration, preferably mouth-to-mouth, and seek medical attention. Burns: Exothermic reactions may cause product to become excessively hot. Handle mixtures with caution. Wear gloves. First Aid: If product contacts eyes, immediately flush with water for at least 15 minutes. Remove contaminated clothing and shoes. Wash exposed skin with soap.

Before and during use, observe all safety labels on the packaging. Consult the Safety Data Sheet and comply with relevant national or local government safety regulations.

Statement

The information listed in this document is reliable. Each value provided is calculated as theoretical data based on the product formulation. Upon request, our company can disclose the internal standard measurement methods used to determine any of the above data. Since usage conditions are beyond the manufacturer's control, this information is provided without warranty. The product is intended for professional use only. For any inquiries, please contact our company.



Our Technical Support and Customer Service Center is available to provide consultation and application technical services regarding the product. We welcome your inquiries via mail or phone. National Customer Service Hotline: 400-059-1116 ext. 3.