

Wanshield®63238-P

Ultra-Durable

Polyurethane Topcoat

Product Description

Wanshield®63238-P is a solvent-free, high-solids, multi-component polyurethane floor coating. It serves as a colored topcoat and can also be applied directly as a finish coat. The cured coating exhibits exceptional abrasion resistance, outstanding weather resistance, and excellent adhesion, along with good chemical resistance and slip resistance.

Product Characteristics

1. High solids content, low viscosity;
2. Excellent scratch resistance and impact resistance;
3. Good UV resistance, no yellowing;
4. Good chemical resistance;
5. Textured surface with strong tactile quality;
6. Excellent wear resistance, good slip resistance and reduced tire noise.

Recommended Uses

Primarily used in factories, workshops, laboratories, offices, underground garages, and similar locations.

Technical Specifications

Physical Parameters

| | |
|--|---|
| Drying Time/h (Surface Dry) | ≤8 |
| Drying Time/h (Through Dry) | ≤48 |
| Pencil Hardness (Scratch Resistance) | ≥6H |
| Abrasion Resistance (750g/500r)/g | ≤0.03 |
| Slip Resistance (Dry Friction Coefficient) | ≥0.5 |
| Tensile Bond Strength/MPa | ≥2.0 |
| Impact Resistance (1000g Steel Ball) | Surface free of cracks and flaking |
| Resistance to Alkali, Acid, Oil (20% NaOH, 72h; 10% H ₂ SO ₄ , 48h; 120# Solvent Oil, 72h) | Free of blistering, flaking, and cracks; slight discoloration permitted |

Surface Preparation

Construction Conditions: 5-35°C. Substrate temperature must be at least 3°C above the ambient dew point; ambient humidity <80%; concrete substrate moisture content <10%. Ensure the work area is well-ventilated and dust-free. Avoid strong winds that may carry dust and compromise surface appearance.

For all new and existing concrete surfaces, concrete strength must reach C25 or higher, with pull-off strength no less than 1.5MPa. Surface contaminants and loose dust must be completely removed down to sound concrete. Any concrete damaged by chemical exposure, loose sections, or contamination by any substance must be removed down to sound concrete.

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

For oil-contaminated surfaces where oil significantly impairs coating adhesion to the substrate, the oil must be completely removed and the surface ground.

For new concrete substrates, ensure the curing period has been exceeded and the surface moisture content is below 10%. It is recommended to use mobile sandblasting tools. It is critical to treat the concrete surface with grinding equipment to achieve the correct surface roughness.

Application Guidance

Application Method

Apply with a flat trowel, then roll horizontally and vertically with a roller.

Mixing Ratio (by weight) Typically, the ratio is Component A: Component B: Component C = 5:2:3. Other ratios may require adjustment based on actual conditions. Thoroughly mix Components A and B before adding Component C and stirring until uniform. For four-component systems, thoroughly mix Components A, B, and C before adding Component D and stirring until uniform.

Pot Life After Mixing(25°C) Working life is 30 minutes. Higher temperatures reduce the working life after mixing. Application is generally not recommended when ambient temperature exceeds 35°C.

Thinner Do not add thinners to the coating.

Recoat Interval Ensure the coating is fully cured before proceeding to subsequent operations. Under standard environmental conditions, the typical recoat interval is 24 hours.

Mix Ratio

Mixing ratio: Component A : Component B : Component C = 5 : 2 : 3.

Pot life: 25 minutes at 30°C. Higher temperatures reduce the usable life after mixing.

Application is generally not recommended when ambient temperatures exceed 30°C.

Thinner

No thinners may be added to the paint.

Film Thickness

| Film Thickness | |
|-----------------|-------|
| Surface Coating | 0.1mm |

Drying time

| Substrate Surface | 20°C |
|-------------------|--------|
| Surface Dry | 8 h |
| Fully Cured | 7 days |

Recoating Interval

| Product Name | 20°C |
|----------------------|---|
| Wanshield® 63238-P | Lowest |
| Ultra-Durable | 24 h |
| Polyurethane Topcoat | Highest If more than 72 hours have passed or the surface has become contaminated, it must be re-sanded |

Ambient Temperature

15°C to 30°C. Avoid application when relative humidity exceeds 80%.

Substrate Temperature

Above the dew point by 3°C or more.

Mixing and Dilution

Wanshield®63238-P is a four-component product with precise ingredient ratios. Once the mixing time is determined, consistency must be maintained throughout the entire application process. Inconsistent mixing times per batch may result in surface color variations and differing textures.

1. During mixing, use a straight-edge trowel to scrape material adhering to the sides and bottom of the container. This operation should be performed at least once to ensure complete final blending.
2. Only mix the entire contents of the factory packaging. Temperature affects both application time and product curing time.
3. Mixing equipment may cause variations in flowability; use the recommended mixing paddle.

No thinners may be added to the coating.

Ventilation

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

Packaging and Storage

Packaging

Three-component, 10-kilogram combination packaging.

Storage

Product storage must comply with national regulations. Storage and transportation conditions: Coatings should be stored in sealed containers at 5-30 °C in a dry, cool, and well-ventilated environment, away from high temperatures and open flames. 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.