

Wanshield®62208

Solvent-Free Epoxy

Intermediate Coat

Product Description

Wanshield®62208 Solvent-Free Epoxy Intermediate Coat is a solvent-free, high-solids, thick-film-capable two-component floor coating that enhances the thickness and sealing properties of coating systems. When mixed with quartz sand during application to form a mortar, it significantly improves the mechanical strength of the coating system. Alternatively, it can be blended with inorganic aggregates such as quartz powder to serve as a joint-filling repair material, enhancing floor levelness.

Product Characteristics

High mechanical strength, impact resistance, and excellent compressive properties, suitable for vehicular traffic; Strong adhesion to primers and topcoats with superior sealing properties; Resistant to acid and alkali corrosion with excellent chemical stability.

Recommended Uses

As an intermediate transition layer between the primer and topcoat, it levels the substrate, enhances the richness and adhesion of the topcoat, and provides the composite coating with superior mechanical strength, weather resistance, and sealing properties. Widely used for floor coatings in various parking lots, large shopping malls, electronics factories, food processing plants, hospitals, schools, office buildings, and other facilities.

Technical Specifications

Physical Parameters

Project	Technical Specifications
Condition in Container	After mixing, the mixture should be uniform with no lumps.
Drying Time	Surface Dry/h ≤ 8
	Full Cure/h ≤ 24
Volatile Organic Compound Content (VOC), g/L	≤ 60
Alkali Resistance (Immersion in Saturated $\text{Ca}(\text{OH})_2$, 48h)	Paint film is intact, free of blistering or peeling, with slight discoloration permitted
Compressive strength, MPa	≥ 45

Surface Preparation

Construction Requirements

1. For all new and existing concrete surfaces, concrete strength must reach C25 or higher, with flatness meeting the 2m straightedge tolerance of $\pm 3\text{mm}$.
2. The floor must undergo at least 28 days of curing before application to achieve optimal results.
3. Optimal application temperature ranges from 5°C to 35°C . Do not apply below 5°C , as this compromises project quality and cured film strength.
4. Substrate moisture content must not exceed 5%, with ambient humidity below 80%. Exceeding these limits may cause bubbling and other cosmetic defects.
5. Ensure the work area is well-ventilated and dust-free, but avoid strong drafts that could introduce dust particles and affect surface appearance.

Surface Preparation

Grinding is generally selected to ensure complete removal of surface stains and loose debris down to sound concrete. All concrete damaged by chemical exposure, loose sections, or contamination by any substance must be removed down to sound concrete. Grinding removes surface dust, stains, and loose layers from the substrate while roughening the surface, enhancing adhesion between the substrate and the epoxy flooring system.

Application Guidance

Application Method

Trowel application, roller application

Primer application:

Use Wanshield® 62201 solventless epoxy primer or Wanshield® 62305 universal flow-out epoxy primer. Apply with a trowel or roller. Application rate: approximately $0.15 - 0.25 \text{ kg/m}^2$. Ensure complete coverage without overspray or excessive thickness. Apply a second primer coat or touch up missed areas as needed.

Intermediate Mortar Layer Application Method:

After the primer is fully cured, mix components A and B of Wanshield® 62208 Solvent-Free Epoxy Intermediate Coat according to the specified ratio. Add an appropriate amount of 80-120 mesh quartz sand and stir thoroughly. Apply with a trowel, ensuring no missed areas or material buildup. Since the intermediate mortar layer typically has a rough surface, apply putty to level the substrate and fill gaps. This ensures a smooth surface and decorative finish for the topcoat application.

Intermediate Putty Layer Application Method:

After the intermediate mortar layer has fully cured, mix components A and B of Wanshield® 62208 solvent-free epoxy intermediate coating according to the specified ratio. Add an appropriate amount of quartz powder or putty powder, stir thoroughly, then apply with a trowel to level the surface. Remove dust from cut joints, pour the prepared putty mixture into the joints, and trowel to form a smooth surface. Ensure no missed areas or material buildup occurs.

Mixing Ratio

Weight ratio: Component A : Component B = 5 : 1. After mixing, thoroughly blend using a high-speed mixer.

Pot life: 1 hour 30 minutes (1 hour when poured onto the floor) at 25°C. Higher temperatures reduce pot life. Application is generally not recommended when ambient temperatures exceed 35°C.

Thinner

No thinners may be added to the paint.

Recoating Interval

Product Name	20°C
wanshield®62208 Solvent-Free Epoxy Intermediate Coat	Confirm that the coating has completely dried before proceeding to the next process step. Under standard environmental conditions, the typical waiting period is 24 hours.

Ambient Temperature

The optimal construction temperature range is between 5°C and 35°C. Construction should not be performed below 5°C, as this may compromise project quality and the strength of the cured paint film.

Substrate Temperature

Above the dew point by 3°C or more.

Mixing and Dilution

Wanshield®62208 is a two-component product with a precise component ratio. 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

Steel drum packaging;

Wanshiled®62208 Solvent-Free Epoxy Intermediate Coat, Component A: 20kg

Wanshiled®62208 Solvent-Free Epoxy Intermediate Coat, Component B: 10kg

Storage

Product storage must comply with national regulations. Storage and transportation conditions: Coatings should be stored in sealed containers at 5-35°C in a dry, cool, and well-ventilated environment, away from high temperatures and open flames. During transportation, materials must be stacked securely to ensure the cargo compartment remains dry, enclosed, and protected from moisture and freezing temperatures.

Shelf Life

When stored under specified conditions, the shelf life of the product in its original packaging is 12 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.