



ARDEX WPS 180

2-Parts Flexible Waterproof Slurry

Advantages

- Flexible formulation, can bridge fine cracks
- High impermeability, excellent durability
- High bond strength
- Easy to apply
- Eco-friendly



Description

ARDEX WPS 180 is a high-compressive-strength acrylic polymer-modified cementitious flexible waterproof coating. It can be used on most substrates such as concrete and cement-sand mortar, and provides good bonding performance for subsequent works such as tiling. It accommodates surfaces with slight deformation and cracking, is vapor-permeable and provides an overall coating-type waterproof anti-seepage system. Anti-settlement and easy to apply. Especially suitable for large-area waterproof coating on rigid wall and floor surfaces.

Areas of Application

Interior and exterior; residential and commercial spaces; walls and floors; Suitable substrates: fully cured concrete, mortar layers, moisture-resistant fiber-cement boards, gypsum boards, etc.
Suitable for waterproof areas protected by finishes, such as balconies, bathrooms, kitchens, tea pantries, etc.

Substrate Preparation

The substrate surface shall be sound, clean and flat, but does not need to be smooth. It is recommended to use ARDEX P 60 for priming prior to formal application.
Detail areas such as internal/external corners and pipe penetrations shall be treated in advance according to ARDEX recommendations; if leakage is present, the leakage point shall be treated first; for large cracks, repair and reinforcement shall be carried out first. Before coating, remove dust accumulation, oil contamination, rust, etc. from the substrate surface. Newly cast concrete substrates shall be cured for more than 28 days before subsequent works. Dense concrete (>40 MPa) and mechanically troweled/compacted concrete substrates shall be mechanically roughened.

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Application

Only substrates that have been treated with priming and detail reinforcement may be coated with ARDEX WPS 180 over large areas.

Mixing

Pour the powder into the liquid and mix to a uniform, lump-free slurry; let stand for about 2 minutes and mix again.

Coating

1. Apply the first coat evenly in the same direction with a roller or brush, ensuring full coverage with no missed areas or pinholes; the coating must be even (wet film thickness approx. 1.0 mm per coat);
2. After about 4 hours of the first coat (drying time may be longer or shorter depending on temperature, humidity and ventilation), apply the second coat in a cross direction perpendicular to the first coat using the same method (total wet film thickness for two coats is 2.0 mm);
3. If crazing or blistering/debonding is found after application, cut it open and repair with waterproofing slurry;
4. After natural curing for 72 hours, flood testing and subsequent works can be carried out (if no flood test is required, subsequent works can be carried out after 48 hours).

Notes

During application and after completion, protect the waterproof coating properly. Before the coating is cured, walking is strictly prohibited; exposure to water and contact with wet objects is strictly prohibited; stacking sharp heavy objects and dragging items are not permitted.

Consumption

Based on a wet film thickness of 1.0 mm, consumption is approx. 1.97 kg/mm/m². (Actual consumption varies depending on substrate condition and application thickness.)

Packaging

18kg per pail
32.5kg per set

Color

Blue

Standard

JC/T 2090-2011 (Type I)

Storage & Shelf Life

Unopened and stored in a cool, dry place, the product has a shelf life of 12 months.

Technical Data

At 23°C and 50% RH

Wet slurry density	approx. 1.97 kg/L
Solids content after mixing	approx. 82%
Time to second coat	approx. 4 hours
Flood test	approx. 72 hours
Tiling	approx. 48 hours
Compressive strength	≥24MPa
Flexural strength	≥8MPa
Bond strength	≥1.0MPa
Flexibility	≥2.0mm
Impermeability pressure	approx. 1.0MPa
Alkali resistance	no cracking, no peeling
Heat resistance	no cracking, no peeling
Freeze resistance	no cracking, no peeling

Safety and Health

This product is safe and reliable under normal use. However, it contains Portland cement and quartz sand; prolonged direct contact may damage the skin. Avoid generating and inhaling large amounts of dust. Avoid direct contact with eyes and skin; wear appropriate protective mask, gloves and goggles during application. If it splashes into the eyes, rinse with plenty of clean water for several minutes. If large amounts of dust are inhaled, keep ventilation and rinse mouth with clean water. Seek medical attention if any adverse reactions occur.

For detailed information, please refer to the MSDS.