Polyurea 860 T

雙組份超透明聚脲防水塗料

Two-Component Transparent Polyurea Waterproofing Coating



Product Description

Straight Master - Polyurea 860T is a high-performance, two-component transparent waterproofing coating based on advanced polyaspartic (aspartic polyurea) technology. Specially formulated for both **interior and exterior** applications, it is ideal for protecting rooftops, exterior walls, and indoor surfaces without altering or concealing the original surface finish. Its unique transparency preserves the aesthetic integrity of substrates such as concrete, screed, tiles, and existing decorative coatings.

Upon mixing, the polyaspartic resin and modified hardener cure into a continuous, robust, and highly elastic clear film that delivers outstanding protection against water ingress, chemical attack, and UV degradation. The coating exhibits exceptional adhesion to a wide range of substrates, superior abrasion resistance, and high tensile strength with excellent elongation, ensuring long-term durability even under demanding weather conditions.

With good flowability and an easy application process (brush, roller, or spray), Polyurea 860T provides a seamless, weather-resistant waterproofing membrane that combines aesthetic preservation with industrial-grade performance.

Applications

-ROOF WATERPROOFING

Application over flat roofs, sloped roofs, roof decks, canopies, and awnings.

-EXTERIOR WALL PROTECTION

Protection for building facades and decorative wall surfaces.

-BALCONIES & TERRACES

Suitable for both residential and commercial open balconies and terraces.

-TILE SURFACE REFURBISHMENT

Supports a "no tile removal" method; applies a transparent protective layer directly over existing tiles while preserving the original decorative style.

-METAL SUBSTRATE PROTECTION

Protects metal gutters, steel sheet roofs, and other metal components against rust and water ingress.

-CONCRETE & CEMENT SCREED

Applicable to new or existing concrete roofs, floors, and leveling layers.

Advantages

- **Transparent Coating Preserves Substrate Aesthetics** – Unique transparent formulation does not conceal tiles, stone, paint, or other decorative surfaces, perfectly presenting the original architectural appearance.
- **Excellent UV & Weather Resistance** – Aspartic polyurea technology endows the coating with outstanding UV stability, maintaining crystal clarity under prolonged outdoor exposure with minimal yellowing, chalking, or degradation – ensuring long-lasting aesthetics and protection.
- **High Tensile Strength & Excellent Elasticity** – Combines toughness with flexibility, effectively bridging fine substrate cracks and accommodating thermal expansion/contraction and minor structural movement – providing a long-lasting, crack-free waterproof membrane.
- **Superior Adhesion** – Demonstrates strong bonding performance to concrete, tiles, metal, wood, and various existing coatings – suitable for most substrates without primer (except for difficult-to-bond surfaces)
- **Excellent Abrasion Resistance & Toughness** – Cures into a tough, dense protective layer that effectively resists foot traffic, debris scratches, and daily wear – extending the service life of the building.
- **Excellent Chemical Resistance** – Withstands industrial fallout, acid rain, detergents, and various chemical agents – protecting substrates from chemical degradation.
- **Easy Application – No Professional Spraying Equipment Required** – Can be applied by brush, roller, or spray; especially highlighted for simple hand brush/roller application without expensive plural-component spraying equipment – significantly reducing equipment costs and application barriers.
- **High Flowability for Uniform Coverage** – Excellent leveling properties ensure a smooth, continuous, pinhole-free waterproof film whether applied by brush or roller.
- **Fast Curing – Shortens Project Timeline** – Touch-dry in just 2–4 hours, allowing rapid recoating – significantly reducing construction cycles and time-related costs.
- **Seamless & Monolithic Membrane** – Cures into a continuous, joint-free elastic film that completely eliminates water leakage pathways – providing comprehensive waterproofing protection.

Substrate Requirements & Preparation

SUBSTRATE PREPARATION

The substrate must be dry, sound, clean, and free from dust, loose particles, grease, or any other contaminants that may adversely affect the adhesion of **Straight Master - Polyurea 860T**.

PRIMING

In general, priming with an epoxy primer is not required, except for difficult or problematic substrates where additional surface preparation may be necessary.

Application Instructions

1. Substrate Cleaning

Ensure substrate is dry, sound, and free from all contaminants. For difficult or problematic substrates, consider applying an epoxy primer as a preparatory measure.

2. Mixing

Mix Part A and Part B at a **1:1 weight ratio** using a high-torque, low-speed drill mixer until the mixture is uniform and homogeneous. **Manual mixing is also acceptable, though a longer mixing time will be required to achieve the same level of uniformity.**

3. First Coat Application

Apply the first coat evenly using a brush, roller, or spray at a wet film thickness of **≤ 0.5mm**.

4. Curing Interval

Allow approximately **2–4 hours** (at 25°C) until the surface is touch-dry.

5. Second Coat Application

Apply the second coat within **4–24 hours** after touch-dry, also at a wet film thickness of **≤ 0.5mm**.

6. Full Cure Period

Avoid ponding water, foot traffic, and falling debris for **7 days** after application to ensure complete curing.

Storage and Packaging:

Part A: 0.5 kg Part B: 0.5 kg

Store in a cool, dry, and well-ventilated area, away from direct sunlight, moisture, and extreme temperatures. Keep containers tightly sealed when not in use.

24 months from the date of manufacture (if stored properly). Store in a dry, unopened, undamaged, sealed package at a temperature between +5°C and +30°C.

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