

Forincrete® DT

Abrasion-Resistant PU Topcoat

Forincrete® DT is a high solid content, highly abrasion-resistant, scratch-resistant PU protective top coating. Its formula contains high-hardness white corundum aggregate, with a surface hardness of over 5H, and is commonly used in heavy traffic areas that require high wear resistance.

Forincrete® DT should be used in combination with Forincrete® MF1/2 self-leveling flooring for protective cover applications.

Application Scenario

Forincrete® DT can be used in the loading bay for logistics and warehouses, parking lots, garbage disposal sites, visitor walkways, supermarkets, and other areas that require high mechanical performance.

Forincrete® DT effectively solves the problem of reduced stain resistance and yellowing of PU screed floors under dry conditions.

*Please consult Forintech solution team for other usage scenarios and solutions.

Product Feature

- Surface hardness of 5H, high abrasion-resistant
- High scratch-resistant
- Resistant to yellowing and has good UV Stability
- Good chemical resistance
- High-end texture with a semi-matte finish
- Can be customized to support anti-static application

Color

There are five standard colors available (approximate):



Custom colors can be ordered based on MOQ.

Packaging

Forincrete® DT is a pre-packaged three-component system, with a single set weighing 10kg:

Component A: 5 kg/bucket;

Component B: 2 kg/bucket;

Component C: 3 kg/package.

Technical Parameters

The following data is measured under laboratory standard conditions and may have slight differences from actual data on-site.

Item	Parameter
Appearance	After stirring, the mixture is uniform and free of lumps.
Pencil hardness (scratch resistance)	5H
Impact resistance, (1000g steel ball)	No cracks or peeling
Tensile Adhesion Strength (Standard)	2.7 N/mm ²
Tensile Adhesion Strength (Soaking in water)	2.0 N/mm ²
Abrasion Resistance (750g/500r)	0.011g
Water Resistance (7D)	No bubbles, No peeling, No discoloration.
Resistance to Oil (Gasoline 120#,7D)	No bubbles, No peeling, No discoloration.
Resistance to Acid (10%H ₂ SO ₄ , 48h)	No bubbles, No peeling, No discoloration.
Resistance to Base (30%NaOH, 48h)	No bubbles, No peeling, No discoloration.
Resistance to Salt (3%NaCl, 7D)	No bubbles, No peeling, No discoloration.
Anti-Slippery (dry friction coefficient)	0.55

Standard

Forincrete® DT complies with the relevant requirements of GB/T22374-2018 "Floor Coating Materials" standard.

Method Statement

Mixing

Before mixing, thoroughly stir component A (resin), and under low-speed mixing conditions (300-400 rpm), add the specified proportion of component B (hardener) and continuously stir for about 30 seconds. Then, slowly add component C (aggregate), and stir for 1 minute until a uniform mixture is obtained.

Note: Component C is a necessary component and must be added during stirring.

Application- Top Coating

The recommended consumption amount of the surface coating material is about 0.1 to 0.12 kg/m². Use a metal flat trowel to evenly apply the coating material on the ground. Use a brush to handle the edge parts. The wet film thickness (WFT) should be controlled to around 0.1mm (dry film thickness (DFT) is around 0.09mm). Immediately use a short-haired roller to roll and coat evenly, cross-rolling in both vertical and horizontal directions once. This will result in a higher uniformity and a more aesthetically pleasing surface coating effect.

Cleaning

Clean the tools immediately after application using solvents. Absorb any spilled materials with dry sand or other absorbent materials and wipe clean with a cloth.

Theoretical Consumption

0.1~0.12kg/m²

Any unreasonable addition or reduction in the material application may affect the interface quality, sealing performance, bonding performance, coating thickness, etc. Therefore, the product consumption should follow the recommended usage and adjust according to the actual situation on-site to achieve ideal performance.

Shelf Life

12 months from the date of production, if stored properly in original, unopened, and undamaged sealed packaging, in dry conditions at temperatures between +10 °C and +25 °C.

Part A must be protected from frost.

Part B must be protected from frost.

Part C must be protected from Humidity.

Mixing Ratio

Mixing all the raw materials from the complete set of factory packages.

Curing Time

Temperature	Surface Dry	Light Traffic	Full Cure
+10°C	~30h	~48h	~6d
+20°C	~16h	~24h	~4d
+30°C	~12h	~18h	~3d

Color

There are five standard colors available (approximate):

Yellow: RAL 1006

Red: RAL 3002

Blue: RAL 5015

Green: RAL 6001

Grey: RAL 7037

Custom colors can be ordered based on MOQ.

Safety

The solvent used to clean the tools is flammable. Keep away from open flames and other sources of ignition, and smoking is prohibited at the site. When not in use, seal the container and store it away from heat sources and flames.

Precaution

Part A: If in frequent or prolonged contact with the skin, it may cause short-term skin irritation in the affected area. Avoid contact with eyes, otherwise, it may cause a momentary mild stinging sensation.

Part B: Harmful if inhaled. May cause irritation to the eyes, respiratory system, and skin. Inhalation and skin contact may cause allergic reactions.

Part C: If accidentally gets into the eyes, immediately flush it with plenty of water. It may cause skin irritation and avoid inhaling dust as prolonged exposure to dust can be harmful to health.

Disclaimer

The technical information and Application precautions provided in the TDS are based on current scientific knowledge and are applicable to conventional situations. We do not guarantee the applicability, accuracy, and reliability of the product under special or extreme conditions. The user is responsible for the use of the product for special purposes.

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