

Specification of chemical technical parameters (TDS)

Samples Name: PROMASTONE EPOXY COLORED SAND FLOOR PAINT

Samples Model: /

Client Name: Proma lead global limited Uk

Address: 90d highstreet London.

Zip Code: E17 7LD

APPROVED BY:



Technology Manager



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Shenzhen Huipu Testing Technology
Co., Ltd.

Add: Unit 2, Building B3, Sunshine Garden, Guanghua Community, Jihua Street, Longgang District,
Shenzhen, Guangdong, China

Tel: 86-0755-2309 2593

86-13117584928

Email: huiputest@163.com

1: Articles and manufacturer information

Samples Name: PROMASTONE EPOXY COLORED SAND FLOOR PAINT

Client Name: Pingdingshan Jinsheng Building Materials Co., Ltd.

Address: Lu'an County, Pingdingshan City, Henan Province. In the northeastern part of Puiguo Wu Village (eastern side of Lu Yang Gongjiu Factory)

Contact: Mr.promise

Emergency consultation telephone number : +447897053295

Email: info@promaleadglobal.co.uk

Recommended and restricted uses of chemicals: Industrial coatings.

2: chemical and physical properties

Main ingredient content:

Ingredients: Epoxy Resin, CAS: 9003-01-4: 66.7%

Color Quartz CAS: 51762-67-5: 33.3%

A-glue	
Appearance	fluid liquid (black, white, gray, transparent)
Density	1.64-1.72 g/cm ³ (1.04 for transparent)
Mohs hardness	Level 8 (Excellent scratch resistance)
Mixed mass ratio	Transparent liquid: Light gray liquid = 1:8
VOC	16 g/L (better than ≤60 g/L standard)
Solid content	Approximately 98%
Drying time	The surface drying time is 4 to 6 hours, and the full drying time is 24 hours.
Compressive strength	55 MPa (typical value for epoxy colored sand system)
Heavy Metal	Lead, mercury, chromium and cadmium were not detected (in accordance with GB 38468-2019)
Low, gentle and flexible	The product's flexibility was tested under low-temperature conditions, and it did not crack even at -20℃.
Heat resistance	The stability of the product in a high-temperature environment: it does not flow or bubble below 80℃.
Infiltration resistance	0.4Mpa, 2H, impervious to water

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Performance characteristics:

1. High strength and quick curing: the compression resistance is more than or equal to $\geq 90\text{MPa}$, and it can be used in 48 hours;
2. Seamless integration: self-leveling, no splicing, waterproof $> 98\%$, good antifouling seal;
3. Super wear resistance: quartz sand reinforced, and the national wear resistance value is $\leq 0.01\text{g}/1000$ cycles;
4. Environmental protection and safety: water-based formaldehyde-free and benzene-free, with $\text{VOC} \leq 50\text{g/L}$ and SGS certification;
5. Stone-like aesthetics: 7 bright colors, supporting matte/Pan Tong color customization, showing marble texture;
6. Convenient construction: A/B=8:1 ratio, single-person work efficiency $> 100 \text{ m}^2$ per day, simple operation;
7. Durable and durable: acid and alkali resistance, industrial environmental life ≥ 15 years, and low maintenance cost.

3: Product Introduction

Two-component environmentally friendly high-performance floor material, scientifically mixed with colored sand emulsion (Group A) and curing agent (Group B), self-leveling and seamless, with a decorative surface featuring marble texture, balancing both aesthetics and industrial-grade durability. The indicators meet the standards.

4: Scope of Application

1. Industrial flooring: for electronic/ pharmaceutical/food processing workshops, etc., meeting high requirements for wear resistance and pressure tolerance;
2. Commercial spaces: shopping malls/hotels/showrooms, etc., bright color schemes enhance the sophistication of the space;
3. Residential scenarios: villa garages/porches, etc., sesame white matte style with anti-slip properties suitable for home use;
4. Base renovation: direct laying of tiles/stone surfaces, no need to remove the base, saving costs;
5. Public facilities: school corridors/hospital floors, etc., antibacterial and easy to clean, suitable for high-frequency use;
6. Special areas: anti-static machine rooms/logistics warehouses, etc., customizable conductive coating.

5: Use method

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1. Base treatment

The base strength is $\geq$ C20. Sanding and cleaning off dirt and loose particles are carried out. The moisture content is $\leq$ 8%. Cracks are repaired with epoxy mortar to ensure the base is flat, dry and clean.

2. Material mixing

Mix A/B in a ratio of 8:1. Use an electric mixer with a speed of $\geq$ 500 revolutions per minute to stir for 2-3 minutes until the mixture is uniform and has good fluidity.

3. Mortar construction

- ① Parallel laying, with a spacing of $\leq$ 50 cm;
- ② Fan-shaped scraping with a 3mm pitch scraper, with a thickness of $1.8-2.0 \pm 0.2$ mm;
- ③ Surface smoothing, without the need for a defoaming roller.

4. Curing and maintenance

After construction, seal and protect for 24 hours. People can enter the area after 48 hours, and vehicles can pass after 72 hours. No additional topcoat is required.

Construction precautions

1. Precise proportioning: Strictly mix in a ratio of 8:1. If the viscosity is too high, add 8-10% alcohol or other diluents, stir evenly, and ensure a total mixing time of $\geq$ 3 minutes to prevent color differences;
2. Environmental control: The construction temperature is 5-35°C, and the humidity is $\leq$ 85%. Avoid condensation during the construction and maintenance stages;
3. Material usage time: The mixed material must be used within 50 minutes to prevent curing and waste.

6: Precautions

1. May be irritating to skin and glasses
2. Please use in a well-ventilated environment
3. If it is not worth contact with eyes, rinse with plenty of water
4. Keep away from children's storage, and keep away from fire during production
5. Storage conditions,, avoid direct sunlight, away from fire and heat sources.
6. Shelf life, 24 months from the production date

***** TDS End *****

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