Epoxy Colored Sand Floor Paint

INTRODUCTION

Epoxy Colored Sand Floor Paint is a novel composite decorative floor coating composed of colored quartz sand and epoxy resin. Utilizing a one-step application process, it forms a seamless, monolithic floor surface. The colored quartz sand in various hues allows for customizable designs through free combinations, while also offering wear resistance, compressive strength, and slip resistance.

This epoxy colored sand floor paint boasts high hardness and exceptional abrasion resistance, making it capable of withstanding foot traffic, vehicle pressure, and chemical corrosion under normal conditions.

APPLICATION

This product is suitable for a wide range of indoor and outdoor environments, including but not limited to floors in areas such as living rooms, bathrooms, hospitals, factories, shopping malls, exhibition halls, subways, high-end entertainment venues, offices, laboratories, hotels, office buildings, and various exhibition spaces.

ADVANTAGES

●Rich in color, strong in texture, and featuring a modern decorative style;

●Seamless floor with the option for custom patterns, integrated with the ground for an elegant and luxurious appearance;

●Formed with integrated quartz round sand particles, offering excellent scratch resistance, heavy-load resistance, and impact resistance;

●High strength and hardness, with outstanding wear resistance;

●Clean and dustproof, featuring a watertight surface that withstands high-pressure washing or steam cleaning for easy maintenance;

●Exceptional anti-slip properties and superior resistance to water, moisture, acids, alkalis, and other chemicals;

●Free from radioactive contamination and harmful gases, making it an eco-friendly green product.

PACKAGING & COVERAGE

Specification:	26kg/pail
Appearance:	Two-components, component A is colored sand liquid, and component B is a transparent curing agent liquid.
Coverage:	It is recommended to apply 2mm, in this case 1.4 kg of this product covers 1m^2.
Warranty period:	20 years
Shelf Life:	1 Year

CONSTRUCTION STEPS

1. Substrate Preparation

Thoroughly clean the floor. For uneven areas, use appropriate materials to fill and level, ensuring the substrate is clean, dry, smooth, and free of loose dust and standing water. If the surface exhibits dusting or powdering, it is recommended to apply a coat of primer first to consolidate the surface and enhance adhesion.

2. Mix Coating

Strictly adhere to the original mixing ratio of Component A and Component B as indicated on the product packaging. Do not alter the proportions. It is recommended to use a power mixer for 3 minutes to ensure a homogeneous mixture. The mixed product must be used within 20 minutes, as it may begin to cure afterwards.

3. Coating Application

Pour the mixed product onto the substrate and spread it evenly using a trowel or a large squeegee. A thickness of 2mm is recommended.

4. Deaeration

After application, use a spiked roller within 15 minutes to roll over the coating, eliminating any entrapped air bubbles. Apply even pressure and roll back and forth, avoiding marks that could affect the final finish.

5. Curing

At a standard ambient temperature of 24°C, the material will be touch-dry within 6 hours and will reach full cure in 24 hours. Therefore, light foot traffic is permissible only after 24 hours. It is recommended to wait 72 hours before placing heavy objects or allowing vehicular traffic to ensure optimal strength and durability is achieved.

Note:

1.The recommended application temperature range is 5° C to 35° C, with relative humidity between 30% and 70%. After application, do not immediately expose the surface to extreme environments such as high-temperature exposure, rain, or snow, as this can affect surface quality and curing effectiveness.
2.For rough or old floors, the product consumption is typically 1.5 to 1.6 kg per square meter.
3.In cold weather, the drying time of the product may be extended; therefore, allow additional time for the product to dry.

HANDLING & HEALTH

1.Please wear rubber or plastic gloves to avoid contact with skin.
2.Product is for professional use only.

STORAGE & SAFETY

1.This product is eco-friendly and non flammable.
2.This product must be stored dry, protected from sun and rain.
3.This product should not be stored at temperatures below 5°C.

TECHNICAL DATA

No.	Test Item		Standard Requirements	Test Results	Individual Results
1	State in Container		Uniform after stirring, no hard lumps	Uniform after stirring, no hard lumps	Pass
2	Drying Time, h	Surface Dry	≤8	6	Pass
		Full Dry	≤48	24	Pass
3	Hardness (Pencil Hardness Scratch)		/	8H	Measured Value
4	Abrasion Resistance (750g/500r), g		≤0.030	0.010	Pass
5	Chemical Resistance	Oil Resistance(120# Solvent Oil, 72h)	No bubbling, no peeling, slight discoloration allowed	No bubbling, no peeling, no discoloration	Pass
		Alkali Resistance(20%NaOH, 72h)	No bubbling, no peeling, slight discoloration allowed	No bubbling, no peeling, no discoloration	Pass
		Acid Resistance(10% H_2SO_4, 48h)	No bubbling, no peeling, slight discoloration allowed	No bubbling, no peeling, no discoloration	Pass
6	VOC Content, (g/L)		≤60	57	Pass