Epoxy Colored Sand Self- Leveling

Epoxy color sand self-leveling is a high-performance flooring material made of epoxy resin, natural color sand and a special curing agent. It combines self-leveling construction with decorative texture, forming a seamless, dense, wear-resistant and durable integrated floor coating.



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Product Composition

The epoxy color sand self-leveling system consists of three core components: epoxy resin, natural color sand aggregate, and special curing agent.

Performance Features

Epoxy color sand self-leveling features excellent wear and compression resistance, with high hardness, anti-crushing and scratch-resistant properties. It is waterproof, oil-resistant and acid-alkali resistant, forming a dense seamless coating with strong adhesion, easy maintenance and a service life of over 20 years. Rich decorative effects are available with various colors and particle sizes of color sand.

Product Parameters

Gloss: High Gloss
Mix Ratio: Color Sand Base : Curing Agent
Hardness: 8H
Theoretical Coverage: 1.2–1.3 kg/㎡
Surface Dry Time: 4-6 hours
Hard Dry Time: 24-48 hours

Environmental Features

Epoxy color sand self-leveling is eco-friendly, adopting solvent-free or water-based systems with VOC ≤ 10 g/L, free of benzene and formaldehyde.It is non-toxic after curing, chemical resistant, and its seamless structure resists dirt and bacteria, ensuring easy cleaning and hygiene.

Performance Advantages

High Hardness & Wear Resistance

Made with high-purity epoxy resin and hard aggregates like quartz sand, epoxy color sand self-leveling forms a dense composite with far better mechanical properties than ordinary epoxy flooring.It features high compression strength (over 80 MPa), excellent impact resistance and superior wear resistance (750 g/500 r ≤ 0.050g, 3× that of ordinary epoxy). With hardness over Shore D 70 or pencil hardness 8H, it is scratch-resistant, durable for 20-30 years, and greatly reduces maintenance costs

Dense & Seamless

Using self-leveling construction, it forms a seamless, hole-free integral floor. Dense and waterproof, it blocks moisture, oil, chemicals and bacteria, solving dirt and mold problems of traditional floors.It is dustproof, stainproof and easy to clean with water, meeting high cleanliness requirements for electronics, pharmaceutical and food industries.

Eco-friendly & Corrosion Resistant

High-quality epoxy color sand self-leveling uses a solvent-free, low-VOC eco-friendly formula, with harmful substances far below national standards. It is non-toxic and odorless after curing, meeting green building material requirements. It resists corrosion from 20% NaOH, acids, oils, and organic solvents without chalking or fading.With good thermal stability from -30℃ to 120℃ , itremain s crack-free. Conductive components can be added for antistatic use in electronics and chemical industries.

Versatile Applications

Widely used in various public places

For hospitals and labs, its seamless surface resists bacteria and disinfectants. In transport hubs, it withstands heavy loads and enables barrier-free access. For schools and gyms, it is scratch-resistant, crack-proof and low-maintenance.

Construction Method

Surface Treatment

Before construction, thoroughly clean the base surface to remove dust, oil and loose particles. Degrease contaminated areas with special cleaners, and remove dust by sweeping, vacuuming or high-pressure washing.

Construction Process

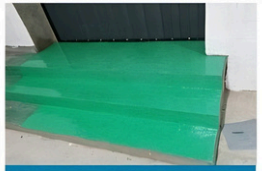
Mix color sand and curing agent evenly as instructed. Pour and spread the mixture on the base, level it with a scraper, and roll with a defoaming roller to ensure even thickness.

Drying and Curing

Maintain a temperature of 5–35°C with good ventilation and no dust.The coating is dry to the touch in 4–6 hours, allows light walking in 24–48 hours, and fully cures in 7 days.No heavy loads, water immersion or strong friction during curing.

Ideal for home coating


Product Renderings


Product Renderings

Epoxy color sand self-leveling flooring forms a smooth, seamless coating in one pass, combining great decoration and practicality.Color sand ensures high hardness and wear resistance against frequent friction and heavy impact.Epoxy offers excellent water, stain and chemical resistance, with strong adhesion to avoid hollowing or delamination.With a soft, even gloss and customizable colors, it suits workshops, warehouses, malls, exhibition halls and high-end home use.