

TECHNICAL DATA SHEET FOR

FLOORSHIELD 853 SL COLOUR FLOATING SAND

DESCRIPTION : Floorshield 853 SL Colour Floating Sand is a new generation self-leveling solvent free epoxy decorative floor coating with the use of newly innovated colour floating sand technology. The product offered variety of colours, patterns and textures with the feature of high compressive strength, anti-slip, resistance to abrasion and chemical corrosion. It is suitable for industrial, commercial and residential used. The product is easy to apply, higher in productivity with simple application procedure compared to traditional colour sand floor coating.

TYPE : Self-leveling solvent free epoxy colour floating sand topcoat

USES :

- Area which required high compressive strength, good abrasion and impact resistance, for example, industrial floor coating for electronic communications, cigarette factory, food processing plants, health care, petrochemicals, textiles, furniture, stationery, as well as area that requires seamless floor with stringent hygiene requirements.
- High-end commercial floor coating, for example, entertainment, hotels, airports, subways, shopping malls, commercial buildings, convention centers, offices and laboratories.

FEATURES

- Variety of colours, patterns and textures, elegant and modern design style decorative effects
- High compressive strength
- High wear, abrasion and impact resistance
- High acid and alkaline resistance
- Smooth and seamless joint allow clean and dustproof coating surface for easy to clean and maintenance
- Customizable to matte and anti-slip surface with the Floorshield 865 SB Epoxy Super Abrasion Resistant Anti-Skid Clear
- Easy, simple application and low labor costs.

APPLICATION DATA

METHOD : Roller

THEORETICAL COVERAGE : Generally 2.0 – 4.0 kg/m² (Based on 1.5 – 3.0 mm DFT)

MIXING RATIO : Part A: Part B = 6.5:1 (by weight). Stir and mix well before use

POT LIFE : 20 mins at 25°C

DILUTION : No dilution is necessary for best performance

CLEANING SOLVENT : Hi-Pon Epoxy Thinner

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- DRYING TIME** : Surface dry: 6 hours
Full cure: 48 hours under normal conditions
- RECOATING INTERVAL** : 24 hours under normal conditions
- SURFACE PREPARATION** : For all new and old concrete floors, the concrete strength must be 25N/mm² or above. Floor moisture must be lower than 4% measured by Tramex moisture meter. For new concrete, allow minimum 28 days curing time before any floor coating application. Ensure surface is clean, dry and stable using the following suggested surface treatments:
- **Unstable matter:** Remove any dust and loose particles. Defective and unsound substrate has to be removed and repaired prior to application
 - **Contaminants :** Laitance, oil, grease must be removed from the concrete surfaces by scabbling, grit blasting or other means
 - **Old paint film:** Completely remove loose or incompatible old paint coatings until a firm concrete surface is present. Alternatively, a clean, dry, intact and compatible coating is also acceptable
- DIRECTION OF USE** : **Application Conditions**
- Ambient temperature range: 25-35°C. The base surface temperature must be at least 3°C higher than the air dew point temperature
 - Ambient humidity range: <80%;
 - Ventilation conditions: Ensure that the application site is well ventilated and free of dust. Avoid strong winds, as they may carry dust that will affect the final appearance.

Note: This product is not applicable for location that is exposed to direct sunlight and to relatively large ultraviolet light intensity.

Priming

Prime the surface with Floorshield Solvent Free Epoxy Primer

Mixing

Slowly add Part B (hardener) into the container containing Part A (Base) and mix with a low speed mechanical mixer until a homogeneous and lump-free mix is obtained. Ensure consistent mixing time and mixing speed for every set. This is to ensure consistent appearance of colour floating sand.

Application

Immediately after mixing, pour well-mixed Floorshield 853 SL Colour Floating Sand onto the primed surface and apply with a metal trowel at thickness of 1.5 – 3.0mm in one layer. For coating thickness of 3mm, a trowel with blade length of 4 to 5mm shall be selected. It is important to use spike roller right after trowel application to release the air bubbles.

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- RECOMMENDED PAINTING SYSTEM** :
- 1 coat of Floorshield SF Epoxy Primer
 - 1 coat of Floorshield 853 SL Colour Floating Sand
 - 1 coat of Floorshield 865 SB Epoxy Super Abrasion Resistant Anti-Skid Clear

TECHNICAL DATA

ITEM	SPECIFICATION	TEST METHOD
Colour and appearance	Uniform colour, smooth surface	Visual Inspection
Surface drying time (at 25°C) hours	6	GB/T 1728-1989
Hard drying time (at 25°C) hours	48	GB/T 1728-1989
Compressive strength, MPa	≥ 80	6.4.7 in GB/T 22374-2008
Adhesive strength (with cement), MPa	≥ 2	GB/T 16777-2009
Shore D hardness	≥ 75	GB/T 2411-2008
Impact resistance (50cm · kg)	No cracking or flaking	6.4.7 in GB/T 22374-2008
Abrasion resistance (750g / 500r, g)	≤ 0.03	GB/T 1768-2006
Water resistance (168h)	No blistering, peeling and discolouration,	Method A in GB/T 1733-1993
Acid resistance (10% sulfuric acid, 48h)	No blistering, no peeling, slight discolouration	Method A in GB/T 9274-1988
Alkali resistance (20% sodium hydroxide, 72h)	No blistering, no peeling, slight discolouration	Method A in GB/T 9274-1988
Resistance to gasoline (120 # solvent gasoline, 72h)	No blistering, no peeling, slight discolouration	Method A in GB/T 9274-1988
Volatile organic compound (VOC), g / L	≤60	6.3.1 in GB/T 22374-2008

GENERAL INFORMATION

PACKING : Part A – 26Kg, Part B – 4Kg pail

SHELF LIFE : 6 months in a cool and ventilated place in the original packing.

The information given is intended to give a description of the product performance under specific test conditions. Nevertheless, we cannot assume any responsibility for the use of it since circumstances under which the products are applied in practice are subjected to many variations. We reserve the right to alter the given data without notice.

Enquiries / Contact Details :

Customer Service
 6265 5355 (Main Line)
 6264 1603 (Fax)
www.nipponpaint.com.sg