

FLOORARTZ FLOATING QUARTZ 3-components Epoxy Self-Levelling with Quartz

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NIPPON PAINT FLOORARTZ FLOATING QUARTZ is three-component epoxy self levelling system with decorative colour quartz that floats on the surface finish. It can be applied on concrete with appropriate primer, or directly onto various types of tiles surface.

Product Features:

- Aesthetic flooring with durable performance
- Seamless and easy maintenances
- Good hardness and abrasion resistant
- Resistant against wide range of washing detergent
- Solvent free thus no solvent smell
- Ideal for residential, commercial, and leisure environments

Paint Type	Product Type	Pack Size	Finishing	Recommended Substrate
Solvent Free Self Levelling Epoxy	Interior Use Exterior Use (with PU Recoatable Clear)	20KG 5KG Part A = 6 KG ; 1.5 KG Part B = 2 KG ; 0.5 KG Part C = 12 KG ; 3 KG	Gloss with floating quartz	Floor Tiles and concrete

TECHNICAL DATA

Solid Content	: 100%
Shelf Life	: 24 months (tightly sealed and properly stored)
Mixing Ratio	: 6 / 2 / 12 (By weight)
Surface Dry	: 12 hours
Hard Dry	: 24 hours
Pot-life (25°C)	: 20 – 30 minutes
Application temperature	: 15 -35°C
Consumption	: 2.0 – 3.0 kg/m ²
Thickness	: 1.50 - 2.00 mm
No of Coats	: 1 coat
Walk on Time	: 24 hours
Cleaning Solvent	: SA-65 Thinner / 2K Thinner 01

PERFORMANCE DATA

Adhesion Strength	: Concrete cohesive failure at >1.5N/mm ² (ASTM D4541)
Abrasion Resistant	: < 80 mg /1000 cycles (ASTM D4060)
Shore D Hardness	: > 75 (ASTM D2240)
Compressive Strength	: > 85 MPa (ASTM C579)

APPLICATION METHOD
Surface Preparation:
Concrete:

Floorartz Floating Quartz can be applied directly onto the primed substrate if the substrate moisture does not exceed max. 4 % by weight (measured electrically using Tramex CME). The surface should have an adhesive pull strength of minimum 1.5N/mm² or compressive strength of minimum 25 N/mm².

The substrate must be flat, level, and free of any undulations or unevenness. Use an **Epoxy** levelling compound if needed.

Prepare the concrete substrate surface by captive shot blasting, scarifying or mechanical grinding. Repair damaged area and patch up cracks and holes using a suitable repair material compatible with the coating system. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

Tile Substrate:

The surface to be coated must be dry and free from surface contaminants. All dust, wax, oil and grease should be removed thoroughly. Any cracks, buckling and water leakage area should be repaired before the application work is conducted. The substrate must be in good condition and dry with no rising damp from the joint of the tiles. The surface should be clean, smooth and allow water run-off.

Application:

Floorartz Floating Quartz is supplied in proportionate quantities in 3-component containers. Stir the entire contents of the component A for 30 seconds with mechanical stirrer, then empty component C into Part A, and mix for 2 minutes. Charge in component B and mix further for 1 minute till homogeneous. Use a 300 - 500 rpm slow-speed drill, with a spiral mixing blade or Jiffy mixer. Move the mixing blade in circles around the inside edge of the pail from bottom to top. The inclusion of air in the stirring process must be avoided.

Pour the mixture on the primed concrete and spread evenly using a 3mm V-notched trowel or squeegee, held at a right angle to the substrate. Immediately pass the spike roller over the spread mix twice at right angles to release any entrapped bubbles.

Clean up with Nippon Paint SA-65 Thinner / 2K Thinner 01 after use. This material must be mixed and applied as a complete set. Partial use of the set is strictly prohibited.

RECOMMENDED SYSTEM**INTERIOR – CONCRETE**

Primer : Floorshield SF Epoxy Primer / High Performance Primer / EA9 Finish
Finishing Coat : FloorArtz Floating Quartz (1.50 – 2.00 mm)

INTERIOR - TILE

Finishing Coat : FloorArtz Floating Quartz (1.50 – 2.00 mm)

Note:

1. Apply 1 coat of Floorshield WB PU Clear Matt, for matt finishing
2. Incorporate non-skid sand 103 (Fine) into PU Recoatable Clear Finish for anti-slip gloss finish.
(20% of non-skid sand in first coat, and without silica sand on second coat)
3. Incorporate non-skid sand 103 (Fine) into Floorshield WB PU Clear Matt, for anti-slip matt finish
(20% of non-skid sand in first coat, and without silica sand on second coat)
4. It is recommended to do 10% dilution with PU Recoatable Thinner, when applying PU Recoatable Clear Finish.

EXTERIOR – CONCRETE

Primer : Floorshield SF Epoxy Primer / High Performance Primer / EA9 Finish
Finishing Coat : FloorArtz Floating Quartz (1.50 – 2.00 mm)
Topcoat : Nippon PU Recoatable Clear Finish (Gloss)

EXTERIOR - TILE

Finishing Coat : FloorArtz Floating Quartz (1.50 – 2.00 mm)
Topcoat : Nippon PU Recoatable Clear Finish (Gloss)

Note:

1. Incorporate non-skid sand 103 (Fine) into PU Recoatable Clear Finish (Gloss) for anti-slip purpose.
(20% of non-skid sand in first coat, and without silica sand on second coat)
2. It is recommended to do 10% dilution with PU Recoatable Thinner, when applying PU Recoatable Clear Finish (Gloss).

POST APPLICATION AND MAINTENANCE

- It is advisable to use soft bristle brush for routine cleaning. Do not use scouring pad cleaner, or abrasive tool to avoid scratch marks.
- Avoid using detergent in its concentrated form; ensure it is properly diluted before cleaning the floor.
- Do not leave detergent residue on the floor after washing. Avoid detergent to pond or remain on the surface for an extended period.
- Ensure there is no water contact within 24 hours after applying finishing coat.
- On wet areas, it is recommended to start using the room 24 hours after application, but any water puddle should be wiped immediately after use.
- The newly painted area can be used normally 5 days after applying finishing coat.

TESTS

1. ASTM D4541 Pull of strength of Coating using portable adhesion tester, tested in-house.
2. ASTM D2240 Durometer Hardness, tested in-house.
3. ASTM D4060 Abrasion Resistance of Organics Coating by Taber Abraser, tested in-house
4. ASTM C579 Determination of Compressive Strength, tested in-house

SAFETY PRECAUTION

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose of any paint waste in accordance with the appropriate Environment Quality Regulations.

NOTE

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2/\text{lit}/\text{coat}$$

and does not consider LOSS FACTORS.

Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.

However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

We reserve the right to alter the given without prior notice.