4Ever Concrete Floor GDR

Primer-less high performance nano epoxy floor coating

Characteristics

4Ever Concrete floor GDR is 2 component epoxy-based floor coating for use in industrial maintenance environments and high performance architectural applications with nano technology.

- Strong adhesion
- Simpler to use in one layer. No need for primer
- Quick drying time. 8hrs
- Excellent anti fouling for tire skid mark
- Easy to repair. Saves time and cost.

Product data

Color

Standard 10 colors: Green, Light green, Grey, Light grey, Skyblue, Orange, Yellow, Ivory, Brown, White

Packaging

10kg sets(Part A:5kg, Part B: 5kg)

Shelf life/Storage

12months(Protect from direct sunlight. if stored properly in original, unopened and undamaged sealed packaging.)

Technical data

COVERAGE	**285-350 g/m2(depending on concrete)**
FILM THICKNESS	170 -190 µm
APPLICATION	Roller, brush
POT LIFE	30-40mins(20ºC, 60% humidity)
DRY TO TOUCH	2 - 3 hours (20ºC, 60% humidity)
FULL CURE	8 hours (20ºC, 60% humidity)
For HEAVY TRAFFIC	24hours(20ºC, 60% humidity)

TEST	DESCRIPTION	RESULT
ADHESION	Pulloff test	7.1 N/mm2
ADHESION	JIS K 5600-5-6 Cross Cut	No delamination
SCRATCH	JIS K 5600-5-4 Scratch hardness (Pencil method)	3H
IMPACT RESISTANCE	JIS K 5600-5-3 Dropping 500g steel ball from 50cm(Falling-weight test by Dupon method)	No damage
HEAT RESISTANCE	JIS K 5600-6-3 The effect of heat	150ºC
ABRASION RESISTANCE	JIS K 5600-5-9 Rotating abrasive rubber wheel method	98 mg
HOT-COLD REPEAT	JIS K 5600-8 -40℃ 3hours to 80℃ 3hours 10cycles	No damage
CHEMICAL RESISTANCE	Resistance to many chemicals. Please ask for detailed information.	

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Application procedures

Surface preparation

- Concrete needs 30days of air drying for concrete curing period.

※ For the surface that does not meet above requirements, coating has to be waited until standard developing period elapsed

- Confirm that concrete surface is smooth. If lack of smoothness exceeds 200μm, then make the surface smooth by sanding or grinding.
- The concrete substrate must be sound and of sufficient compressive strength with a minimum pull-off strength of 1.5N/mm2.
- All contaminants such as dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- Be sure that moisture content ratio is less than 10%.

Mixing time

- Stir Part A with an electric mixer thoroughly for at least 1minute until color is unformed.
- Stir Part B with an electric mixer thoroughly for at least 1minute until color is uniformed.
- Mix Part A and Part B on 1:1 ratio by weight. Then, mix thoroughly with an electric mixer for at 3minutes until color is unformed.

Applying paint

-Remove any excess fur from the roller using duct tape.

-Use small brush (15 or 30 mm) to paint edges on the area.

- Use spatula to fill up the crack area. Remove excess paint by levelling it using spatula and wait for the paint to seep inside the crack. Once the paint has seeped in, re-fill the crack again until slightly overflowing.
- Use roller for large flat area.(Roller size: 6 or 9inch)
- Apply paint vertically(130～150g/㎡)
- When you can walk on the first coating film, start second coating. (allow to dry for about 2-3hours after first coating)
- After painting vertically, continue to paint horizontally and softly.(155～200g/㎡)
- After finishing painting, soak all the brushes in container which contains respective Reducer.
- Cover the surface of the solvent container with tape, to avoid evaporation.
- After finishing painting, keep remaining paint in can properly.
- Remove tape and clean any spillage on the mouth of the paint can with EP Reducer.
- Use scrapper and hammer to tighten the lid.

Caution

- At temperature of 30-35℃, the paint should be applied within 20 mins. For your reference, proper paint amount is 2kg per 1person for 20mins.
- When used outdoor or exposed to the sun, this may cause yellowing, fading or chalking.
- When temperature is low, condensation on the painting during curing may cause blushing.

Disclaimer

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