

Water-based Coloured Anti-skid Flooring System

DESCRIPTION

Krystal® Shield system is an anti-skid flooring system, with coloured steadfast skim coat finishing layer, applied in place of floor tiles, pebble wash, interlocking tiles or conventional cement screed as traffic top wearing surface. The surface texture of Krystal® Shield provides excellent anti-skid features to provide safety for human traffic. Reflective nature of crystal enables colour to remain vibrant even under weathering and aging conditions causing.

SCOPE OF APPLICATION

- Carpark
- Drive-through
- Pedestrian Walkway
- Common Area

PRODUCT FEATURES

- Environmental Friendly
- High Wear Resistant and Durable
- Excellent Anti-skid/slip Performance
- Colour Steadfast
- High UV-resistant
- Non-stain and Non-corrosive
- Wide Colour Range

PERFORMANCE DATA

- Skid Resistance Value (Dry): ≥ 67
- Skid Resistance Value (Wet): ≥ 54
- Wear Resistance (Abrasion): Depth of water-0.19mm
- Hardness: 2H
- Adhesion Strength
 - ❖ Concrete Substrate: 4.40N/mm^2 [1]
 - ❖ Metal Substrate: 9.50N/mm^2
 - ❖ Asphalt Substrate: 0.98N/mm^2 [2]
- [1] Concrete Failure; [2] Asphalt Failure
- Stain Resistance
 - ❖ Used Engine Oil: Class 5
 - ❖ Olive Oil: Class 5

- ❖ Coffee with Milk: Class 4
- ❖ Black Rubber Hose: Class 4
- Flammability Resistance: Grade B1
- Artificial Weathering Test: After 400hrs, no cracking, softening or delaminating
- Chemical Resistance Test on:
 - ❖ Used Diesel Oil (Tested for 72hrs) No blistering, no peeling, no discolouration
 - ❖ NaOH (Tested for 72hrs) No blistering, no peeling, no discolouration
 - ❖ H_2SO_4 (Tested for 48 hrs) No blistering, no peeling, no discolouration

POT LIFE

Pot life will vary according to the quantity mixed, ambient and substrate temperature.

Primer:	1 hr
Moisture Barrier:	2 hrs
Humidity Seal Primer:	1 hr
Krystal® Base:	1 hr
Krystal® Top:	1 hr
Krystal® Seal:	1 hr

(All at 23°C)

COVERAGE

Primer:	0.32 kg/m ²
Moisture Barrier:	0.45 kg/m ²
Humidity Seal Primer:	0.16 kg/m ²
Krystal® Base:	0.15 kg/m ²
Krystal® Top:	0.15 kg/m ²
Krystal® Seal:	0.10 kg/m ²

CURING

Primer:	2 hours
Moisture Barrier:	24 hours
Humidity Seal Primer:	24 hours
Krystal® Base:	4 hours
Krystal® Top:	4 hours
Krystal® Seal:	4 hours

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CHEMICAL PROPERTIES

	Primer	Moisture Barrier
VOC(g/L)	N.D.	N.D.
Halogenated Solvent	N.D.	N.D.
Aromatic Solvent	N.D.	N.D.
Heavy Metals	N.D.	N.D.
Epichlorohydrin	N.D.	N.D.
NMP	N.D.	N.D.
Formaldehyde	N.D.	N.D.
APEO	N.D.	N.D.
Flash Point (°C)	>61.0	>61.0

	Humidity Seal Primer	Krystal® Base/Top	Krystal® Seal
VOC(g/L)	16.19	5	5
Halogenated Solvent	N.D.	N.D.	N.D.
Aromatic Solvent	N.D.	N.D.	N.D.
Heavy Metals	N.D.	N.D.	N.D.
Epichlorohydrin	N.D.	N.D.	N.D.
NMP	N.D.	N.D.	N.D.
Formaldehyde	N.D.	N.D.	N.D.
APEO	N.D.	N.D.	N.D.
Flash Point (°C)	>61.0	>61.0	>61.0

N.D.: Not detected (<Reporting Limited)

NMP: N-methyl Pyrrolidinone

APEO: Alkyl Phenol Ethoxylate

SHELF LIFE

Krystal® Shield may be stored in tightly sealed original containers for 6 months in controlled environments.

PRECAUTIONS

Application of subsequent layers to only commence after the previous layer is cured. The amount of water to add is a basic guideline; mix to workability. Read all safety directions and warnings on this before use. Refer to material safety data sheet for handling procedures. Suggest wearing respirator mask, chemical protective glasses, toxic overalls and impermeable gloves. Distance from all fire source, heat, and do not smoke in the area during the course of the application. Ensure adequate ventilation.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication are based on the present state of our best scientific and practical knowledge. The use of product is not under control of the manufacturer. It is not a sales specification or an indication of suitability for particular use. The product is complied with the regulation for indoor renovation material under toxic chemical substances. B. T. Sports Pte Ltd reserves the rights to change the natural of the product.