

FLOORSPORTS 1K EPOXY HYBRID
Updated Sept'23

FLOORSPORTS 1K EPOXY HYBRID is an epoxy hybrid coloured 1-pack water-based floor coating, designed for multi-purpose sports flooring, bicycle and pedestrian lanes in parks and recreational areas, internal and external floor. Varying thickness can be achieved from 0.20mm to 1.0mm by selected aggregate, by roll and trowel application.

Product Features:

- Excellent resistance to UV radiation.
- Excellent abrasion resistance & great durability.
- Excellent breathability performance
- Good aesthetic finish and easy application
- Filled with quartz for varying thickness.

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Interior & Exterior	Low Sheen	Concrete Floor / Asphalt Surface	5 Litres

Composition

Pigment	: Mainly Titanium Dioxide, Mineral Extender
Binder	: Epoxy Hybrid
Thinner	: Water

Technical Data

Drying Time	: Touch Dry	: 30 minutes (Dependent on temperature, humidity & thickness)
	: Hard Dry	: 2 hours (Dependent on temperature, humidity & thickness)
Recoating Time	: minimum 6-8 hours (Dependent on temperature, humidity and thickness)	
Specific Gravity	: 1.20 kg/L	
No. of Coats	: 2-3 coats	
Theoretical Coverage*	: Unfilled system : 0.10 – 0.20kg/m ² /coat	
	: Filled system (Roll application) : 0.25-0.35 kg/m ² /coat	
	: Filled system (Trowel application) : 1.0 – 1.50 kg/m ²	
	<i>*Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance</i>	
Volume Solid	: ~ 40%	
Shore D Hardness	: 55	
Abrasion Resistant	: 100mg	
Tensile Strength	: 8.40 N/mm ²	
Tensile Adhesion	: > 1.50 N/mm ²	
Vapor Permeability	: 3.0g /h.m ²	
Shelf life	: Up to 24 months in tight sealed container	

Recommended Coating System
CONCRETE SURFACE – UNFILLED SYSTEM:
Render/Cement Screed:

Primer	: ACRYLIC 5170 WALL SEALER	: 1 Coat
Finishing Coat	: FLOORSPORTS 1K EPOXY HYBRID	: 2-3 Coats

Power Floated Floor:

Primer	: HIGH PERFORMANCE PRIMER	: 1 Coat
Finishing Coat	: FLOORSPORTS 1K EPOXY HYBRID	: 2-3 Coats

CONCRETE SURFACE – FILLED SYSTEM:
Roll Application (300-500um):

Primer	: HIGH PERFORMANCE PRIMER	: 1 Coat
Finishing Coat	: FLOORSPORTS 1K EPOXY HYBRID (20% Non-skid sand 103 Fine)	: 2 or more coats

Trowel Application (1mm):

Primer	: HIGH PERFORMANCE PRIMER	: 1 Coat
1 st Intermediate Coat	: FLOORSPORTS 1K EPOXY HYBRID (100% Non-skid sand 103 Fine)	: 1 Coat
2 nd Intermediate Coat	: FLOORSPORTS 1K EPOXY HYBRID (50% Non-skid sand 103 Fine)	: 1 Coat
Finishing Coat	: FLOORSPORTS 1K EPOXY HYBRID	: 1 Coat

CONCRETE SURFACE – MASTIC SYSTEM:

Primer	: FLOORSPORTS MASTIC (20% Dilution with Water)	: 1 Coat
Intermediate	: FLOORSPORTS MASTIC	: 1-2 Coats (2-3mm)
Finishing	: FLOORSPORTS 1K EPOXY HYBRID	: 2 Coats

ASPHALT SURFACE:

Primer	: FLOORSPORTS MASTIC (20% Dilution with Water)	: 1 coat
Finishing	: FLOORSPORTS 1K EPOXY HYBRID	: 2 – 3 coats

ASPHALT SURFACE – MASTIC SYSTEM:

Primer	: FLOORSPORTS MASTIC (20% Dilution with Water)	: 1 coat
Intermediate	: FLOORSPORTS MASTIC	: 1-2 coats (2-3mm)
Finishing	: FLOORSPORTS 1K EPOXY HYBRID	: 2 coats

Surface Preparation

Surfaces should be clean, dry and free from oil, grease and contaminants before painting. For previously painted surfaces, remove all unstable paint film, loose chalk, dust and foreign matter. Repair any surface defects, clean off and dry. Avoid painting on the substrate with exceed 4% moisture content. Avoid painting when the environment relative humidity exceeds 85%, or when the surface to be painted is less than 3°C above the dew point.

Application Method

ACRYLIC 5170 WALL SEALER	: Ready for use after thorough stirring. If necessary, dilute with maximum 5% of Acrylic 3000 Thinner. Apply with brush or roller.
HIGH PERFORMANCE PRIMER	: HIGH PERFORMANCE PRIMER is supplied in proportionate quantities in 2-component containers. Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained. Apply with brush or roller, 5% dilution with SA-65 thinner if necessary. Ensure it is used within pot-life (4-6 hours after mixing).
FLOORSPORTS 1K EPOXY HYBRID	: Ready for use after thorough stirring. If necessary, dilute with maximum 5% of water. For filled system, add the required quantity of Non-skid Sand 103 Fine gradually into the FLOORSPORTS 1K EPOXY HYBRID , while stirring with mechanical stirrer, for about 2-3 minutes, until a homogeneous mixture is achieved. Apply with brush or roller. For trowel applied, pour the mixture on the floor, and spread evenly by trowel.

Cleaning

Clean up equipment with water immediately after use.

Safety Precautions

- 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 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.