



SAFFROKOL™

SAFFRO RIGIDFLOR (METALLIC)

Technical Data Sheet



Builds a strong surface



Resistant to wear and tear



Rust Free



Prevent Shrinkage



Great for both indoor and outdoor spaces



Easy to use

PRODUCT DESCRIPTION

SAFFRO RIGIDFLOR (Metallic) is a ready-to-use, single-component metallic dry-shake hardener designed for concrete surfaces. It's made from a blend of cement, durable non-corroding metallic aggregates, special additives, and high-quality pigments, all pre-mixed for easy application and consistent performance.

FEATURES AND BENEFITS

- Non-staining and non-corrosive
- Long-lasting and cost-effective
- Top-rated wear resistance
- Strong impact resistance
- Dust-free surface
- Available in multiple colours
- Low maintenance needed

APPLICATION AREAS

- Warehouses
- Factories
- Shopping malls
- Public areas
- Restaurants
- Museums
- Parking lots
- Garages and service stations

TECHNICAL DETAILS

ASTM C 109, IS 9162, BS 6319, IS 1237:1980, IS 13630-13, 2006

Parameter	Results
Form	Metallic Free Flow Granular Powder
Color	Natural Grey, Terracota, Green, Yellow etc.
Initial Setting Time	2-3 Hours
Final Setting Time	12 Hours
Compressive Strength	15 N/mm ² @ 1 Days
Abrasion Resistance	Approx. 1.6mm loss
Mohs Hardener	>8
Layer Thickness	2.5 to 3.0mm at dosage of 5.0 Kg/m ²
Time to Traffic	Foot: 1-2 Days Light Vehicular: 7 - 8 Days Heavy Vehicular: 28 Days
Curing	7 Days



SAFFROKOL™



SAFFRO RIGIDFLOR (NON-METALLIC) Technical Data Sheet



Builds a strong surface



Resistant to wear and tear



Rust Free



Prevent Shrinkage



Great for both indoor and outdoor spaces



Easy to use

PRODUCT DESCRIPTION

SAFFRO RIGIDFLOR (NON-METALLIC) is a premium dry-shake concrete floor hardener formulated with specially-graded non-metallic mineral aggregates, high-performance polymers, and proprietary admixtures. When broadcast over fresh concrete and power-troweled, it creates a monolithic, densified wearing surface with superior abrasion resistance, impact strength, and dust-proofing properties. This industrial-grade flooring solution delivers enhanced durability in warehouses, distribution centers, and manufacturing facilities while remaining rust-free and skid-resistant even in demanding environments.

FEATURES AND BENEFITS

- Builds a strong and tough surface that handles heavy impacts with ease.
- Designed to prevent shrinkage and won't rust, making it great for both indoor and outdoor spaces.
- Completely chloride-free for safer use.
- Highly resistant to wear and tear.

APPLICATION AREAS

- Good fit for busy places, e.g factories, warehouses, and logistics hubs.
- Increases the natural shine of polished concrete.
- Doesn't require any extra coatings.
- Ideal for commercial spaces that need quick installation and reliable performance.

TECHNICAL DETAILS

ASTM C 109, IS 9162, BS 6319, IS 1237:1980, IS 13630-13, 2006

Parameter	Results
Form	Non-metallic Free Flow Granular Powder
Color	Natural Grey, Terracota, Green, Yellow etc.
Initial Setting Time	2-3 Hours
Final Setting Time	12 Hours
Compressive Strength	19±1 N/mm ² @ 28 Days
Abrasion Resistance	Approx. 1.6mm loss
Mohs Hardener	>7
Layer Thickness	2.5 to 3.0mm at dosage of 5.0 Kg/m ²
Time to Traffic	Foot: 1-2 Days Light Vehicular: 7 - 8 Days Heavy Vehicular: 28 Days
Curing	7 Days

APPLICATION INSTRUCTIONS

SUBSTRATE REQUIREMENTS

Ensure concrete has minimum cement content of 300 kg/m³

Base concrete should have adequate compressive strength for intended traffic load

Surface must be free from contamination, laitance, and loose materials.

SURFACE PREPARATION

Allow concrete to reach initial set (3–7mm footprint impression)

Ensure proper bleed water evaporation or carefully remove without disturbing surface

For existing concrete, clean thoroughly using industrial-grade cleaning equipment

Repair any cracks, spalling or surface defects prior to application.

APPLICATION PROCEDURE

- **FIRST APPLICATION:** Apply 50–70% of material evenly over the prepared surface

Immediately float material into concrete surface using wooden float or power trowel

- **SECOND APPLICATION:** Distribute remaining 30–50% of material evenly over surface

Float and trowel material into surface until fully integrated

- **FINAL FINISHING:** Use power trowel when floor has stiffened sufficiently to achieve dense, smooth finish

Pay special attention to edges and perimeters during finishing

APPLICATION RATES

- Light-Duty Traffic Areas: 2.5–3.5 kg/10 ft²
- Medium-Duty Traffic Areas: 4.0–5.0 kg/10 ft²
- Heavy-Duty Traffic Areas: 5.0–6.0 kg/10 ft²
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CURING & PROTECTION

- Commence curing immediately after final troweling
- Use approved curing membrane or polythene sheeting
- Maintain regular surface washing during first 6–12 months
- DO NOT apply water to surface after hardener application
- Protect from heavy traffic for minimum 72 hours

LIMITATIONS

- Do not apply to frozen or frost-filled surfaces
- Do not apply in strong wind or dry conditions
- Variations in concrete characteristics such as water content and cement may lead to slight color variations
- Dry shake hardeners give a finish with some color variation across the floor due to natural variability of concrete
- To ensure optimum color consistency, floor laying operation should be clean and protected from environment
- Color variation during drying period is normal and expected
- Every effort must be made to ensure even application with correct timing and trowelling techniques
- At low relative humidity, efflorescence can appear on surface
- At high relative humidity, bleeding, slower curing and hardening can occur requiring extended finishing operations
- Protect from rapid drying conditions, direct sunlight and high winds
- Always wear appropriate personal protective equipment
- Not recommended for surfaces receiving decorative stains or dyes

SHELF LIFE

SAFFRO RIGIDFLOR product lasts up to 10 months if it is kept sealed in a cool, dry place. Also keep in mind that heat, humidity, and other site conditions can affect shelf life.

SAFETY PRECAUTIONS

Keep the product out of reach of children. At the time of application, wear protective gear such as gloves, suitable clothing, and eye or face protection. If the product comes into contact with your skin, wash it off immediately with plenty of clean water. In case of eye contact, rinse thoroughly with clean water and seek medical attention without any delay.




BO: Pankaj Petrochem Consultancy LLC

Licence no. # 2428700, Shams Business Center, Sharjah Media City Freezone, Al Messaned, Sharjah (Dubai) UAE

PANKAJ PETROCHEMICAL PVT. LTD.
(AN ISO : 9001, 14001 : 2015 CERTIFIED COMPANY)

Address: Jind Road, VPO Titoli, RTK, HR, 124001

 Toll Free : 1800-202-732
Call : +91-8607650126

 info@saffrokol.com

 www.saffrokol.com

