



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 (Non-Metallic) lasts for 6 months from the production date when stored in its original sealed packaging, away from moisture, sunlight, and freezing temperatures.

SAFETY PRECAUTIONS

The product, SAFFRO RIGIDFLOR (Non-Metallic) is non-toxic, but it has an alkaline nature, so it's important to wear gloves when handling it. If it gets on your skin or in your eyes, rinse it off immediately with clean water. If irritation persists, get medical help right away.



BO: Pankaj Petrochem Consultancy LLC

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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

