



**NATIONAL GUARD FLEXIBLE EPOXY FLOORING TOPCOAT S.F
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

**NATIONAL GUARD FLEXIBLE EPOXY FLOORING
TOPCOAT S.F**

PRODUCT DESCRIPTION	A two pack high build solvent free flexible topcoat based on polyamide cured modified epoxy resins for concrete floors. The fully cured film has good adhesion, good chemical resistance. It is self leveling coating for heavy duty floorings, especially on slight vibrating surfaces. It has very good crack bridgeability.
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RECOMMENDED USES	For flexible heavy duty applications for protection of cementitious surfaces etc. Since it has good resistance to chemical and mechanical damage, useful for flooring applications of Industrial floors, workshop floor, kitchen breweries, beverage plants and stores, cold storages, garages, malls etc. For exterior use, it can be over coated with polyurethane topcoat. This is mostly recommended for the flexible heavy duty applications.
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TECHNICAL DATA

COLOUR, DRY FILM	Limited Colours	Clear
FINISH, DRY FILM	Smooth / Glossy	Smooth / Glossy
VOLUME SOLIDS (ASTM D2697)	100%	100%
SPECIFIC GRAVITY	1.65 ± 0.05 (mixed) pastel colour	1.09 ± 0.05 (mixed)
THEORETICAL SPREADING	3.3 M ² /LTR 2 M ² /kgs.	3.3 M ² /LTR 3.0 M ² /kgs.
RECOMMENDED DFT (DRY FILM)	300 Microns/Coat	300 Microns/Coat
RECOMMENDED WFT (WET FILM)	300 Microns/Coat	300 Microns/Coat
FLASH POINT	>100°C	>100°C

DRYING TIME

Drying time @ 30 °C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	3 – 4 hours
*DRY TO RECOAT / OVERCOAT	16 hours (minimum) – For maximum over coating interval refer to our Technical Coating Division
FULLY CURED	7 days

* With same generic type paint.



ADVANTAGES

NATIONAL GUARD FLEXIBLE EPOXY FLOORING TOPCOAT S.F. SYSTEM	Self – leveling, high build coating with excellent water resistance. The dried film is resistance to high impact. It has excellent crack bridging properties, good adhesion and abrasion resistance.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	<p><u>New Construction:</u> Concrete floors, to be coated should be allowed to cure for at least 28 days. Floor should be sound, clean and free from oils, grease, mortar, loose particles, dust etc. Laitance should be removed by the use of mechanical means such as vacuum recovery shot blasting. Moisture content should be less than 5%.</p> <p><u>Existing Substrate:</u> All contamination must be removed and a sound clean substrate should be exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum. All cracks and minor damage-surface should be repaired and allow to dry prior to priming.</p>
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APPLICATION DATA

APPLICATION METHOD	Airless Spray, Trowel, Roller or Brush (touch-up)
CLEANING/THINNING	National Epoxy Thinner
THINNER (VOLUME)	Ready to use
CONV. SPRAY REQUIREMENTS	Not Applicable
AIRLESS SPRAY REQUIREMENTS	Pressure: 3000 psi
NOZZLE SIZE	0.025” - 0.030”
MIXING RATIO (BY WEIGHT)	Base : Hardener Colour 5 : 1 and for Clear 2 : 1 (Mix properly before use)
POT LIFE @ 30°C (100 ml)	15 – 20 minutes

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface. Application temperature and surface temperature between 8°C - 35°C moisture less than 4% mix, required material at a time and apply.	National Guard Primer for Cement Clear	: 1 coat
	AND / OR	
	National Guard Flexible Epoxy Flooring Clear S.F. (as primer)	: 1 coat
	National Guard Flexible Epoxy Flooring Topcoat S.F.	: 1 – 2 coats
	For anti-kidding, spread aggregates, when first coat is wet. Apply second coat as a topcoat after 16 hours.	



NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1	Surface Burning Characteristics	ASTM E 84 – 09a	

ADDITIONAL DATA

SHELF LIFE @ 30°C	18 months, in original sealed container, with proper storage conditions.
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HEALTH & SAFETY

SAFETY PRECAUTIONS	As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapours and paint mist by wearing suitable mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area. Smoking in the area should not be permitted. Local safety regulations should be followed.
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STORAGE & HANDLING

STORAGE	Store the paint in proper storage conditions as per the local regulations. Keep the paint container in sealed condition under shed, away from direct sunlight and extreme temperatures. Do not stock paint material near to any ignition sources. Do not put back the half or unused material back in original container, containing the supplied paint, to avoid contamination. Handle with care. Stir well before use.
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NOTE: We warranty only the quality of our product and this data sheet is based on results obtained from experience and tests. We reserve the right to change data without prior notice. For surface preparation, safety details refer specifier and safety data.

This data sheet supersedes all previous issued.
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