



NATIONAL GUARD EPOXY FLOORING TOPCOAT S.F.  
DECORATIVE COATINGS

TECHNICAL DATA SHEET

## NATIONAL GUARD EPOXY FLOORING TOPCOAT S.F.

<b>PRODUCT DESCRIPTION</b>	A two pack, chemical resistant, high build solvent free topcoat based on polyamine cured epoxy resin for concrete floors. The fully cured film has good adhesion, excellent chemical resistance, and good abrasion and impact resistances. It provides good resistance to acids and alkali solutions. It is self leveling coating for heavy duty applications.
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<b>RECOMMENDED USES</b>	For heavy duty applications for protection of cementitious surfaces. Since it has excellent resistance to chemical and mechanical damages, useful for the flooring applications of workshop, kitchen, breweries, beverage plants and stores, cold storage, garages, malls etc.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	Limited Colours	Clear
<b>FINISH, DRY FILM</b>	Smooth, Glossy	Smooth, Glossy
<b>VOLUME SOLIDS (ASTM D2697)</b>	100%	100%
<b>SPECIFIC GRAVITY</b>	1.65 ± 0.05 (mixed) pastel colour	1.09 ± 0.05
<b>THEORETICAL SPREADING</b>	2 M <sup>2</sup> /LTR	3 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT (DRY FILM)</b>	300 Microns/Coat	300 Microns/Coat
<b>RECOMMENDED WFT (WET FILM)</b>	300 Microns/Coat	300 Microns/Coat
<b>FLASH POINT</b>	>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.)	
<b>TOUCH DRY</b>	3 – 4 hours
<b>*DRY TO RECOAT</b>	12 – 16 hours (minimum) – 72 hours (maximum)
<b>FULLY CURED</b>	7 days

\* With same generic type paint.

### ADVANTAGES

<b>NATIONAL GUARD EPOXY FLOORING TOPCOAT S.F. SYSTEM</b>	Self – leveling, high build with excellent water resistance and chemical resistance. The fully cured film has good abrasion and impact resistances, good adhesion, good resistance to acids and alkali solutions, good abrasion and impact resistance.
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**APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	<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**

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

**SYSTEM**

<b>RECOMMENDED SYSTEM</b> 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
	OR	
	National Guard Epoxy Flooring Primer S.F.	: 1 coat
	National Guard Epoxy Flooring Topcoat S.F.	: 1 – 2 coats
	For antis kidding, spread recommended size aggregates, when first coat is wet. Apply second coat as a topcoat after 8 hours.	



**NATIONAL/INTERNATIONAL TEST CERTIFICATES**

<b>Sr. No.</b>	<b>Test Description</b>	<b>Test Reference</b>	<b>Compliance</b>
1	Shore "A" Hardness	ASTM D 2240 - 05	
2	Tensile Strength	ASTM D 638 : 02a ASTM C 307 : 94	
3	Elongation	ASTM D 638 : 02a	
4	Flexural Strength	ASTM C 580 : 1998 BS 6319 Part 3 : 1983	
5	Pull off Strength Bond Strength / Adhesion Strength	ASTM D 4541 : 2002 BS 1881 Part 207	
6	Compressive Strength	ASTM C 579 - 96	
7	Impact Resistant	ISO 6272	
8	Abrasion Resistant	ASTM D 4060 – 07	
9	Rapid Chloride Permeability	ASTM C 1202 : 97	
10	Alkali Resistance	ASTM D 543 : 1995	
11	Chemical Resistance	ASTM D 1308 : 87	
12	Reduction in Water Absorption	ASTM D 870	
13	Crack Bridging Ability	ASTM C 836 : 95	
14	Surface Spread of Flame	BS 476 : Part 7 : 1997	
15	Reaction to Fire	ASTM E 84 – 16	
16	Salt Spray	ASTM B 117	
17	VOC	USEPA 24	Local Regulatory Requirements

**ADDITIONAL DATA**

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

<b>SAFETY PRECAUTIONS</b>	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**

<b>STORAGE</b>	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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