



**NATIONAL GUARD HEAVY DUTY EPOXY FLOOR SCREED
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL GUARD HEAVY DUTY EPOXY FLOOR SCREED

PRODUCT DESCRIPTION	A combination of solvent free epoxy resin, curing agents and specific graded aggregates selected for their properties of high chemical resistance and mechanical strength. It is supplied as a three pack system and ready for use on site. Fully cured coating provides extremely durable high strength, impact and abrasion resistance floor surface. It has high mechanical strength and is used as heavy duty high build anti – skid coating.
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RECOMMENDED USES	Industrial areas with heavy loading production plants, workshops, warehouses, garages, hangers etc. It is suitable for use on mortar, concrete or stone surfaces. Can be overcoated with National Guard Epoxy Flooring Topcoat S.F.
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TECHNICAL DATA

COLOUR, DRY FILM	Clear
FINISH, DRY FILM	Antiskid
VOLUME SOLIDS (ASTM D2697)	100%
SPECIFIC GRAVITY	Clear: 1.09 ± 0.05 (Mix. Base + Hardener) Clear: 2.00 ± 0.05 (Mix. Base + Hardener + Silica Aggregates) (Depends on silica mixed aggregate)
THEORETICAL SPREADING	Depends on the thickness
RECOMMENDED DFT (DRY FILM)	3 – 10 mm (system) as required
RECOMMENDED WFT (WET FILM)	3 – 10 mm (system) as required
FLASH POINT	>100°C

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
DRY TO RECOAT	8 – 12 hours
FULLY CURED	7 days

ADVANTAGES

NATIONAL GUARD HEAVY DUTY EPOXY FLOOR SCREED SYSTEM	Solvent free epoxy system. Easy to mix and apply. No. solvent present. No volume shrinkage. Has better mechanical strength, anti skid and chemical resistance properties.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	Before application, the surface should be sound, clean and free from oil, grease, loose particles, dust, etc. Application can be done by the recommended application methods.
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APPLICATION DATA

APPLICATION METHOD	Special application technique, Trowel
CLEANING/THINNING	National Epoxy Thinner
THINNER (VOLUME)	Not Recommended
MIXING RATIO (FOR CLEAR) BY WEIGHT	(Base + Hardener): Mixed Aggregates 1:4 (Depends on size of Aggregates)
POT LIFE @ 30°C (100 ml)	15 – 20 minutes

SYSTEM

SURFACE PREPARATION Surface temperature between 8° - 35°C	Substrate should be free from dust, oil, grease and properly leveled. Cracks to be repaired with Epoxy Filler. If needed sand blasting to be done. Moisture should be less than 4%.
RECOMMENDED SYSTEM (CLEAR)	Material required for 1M ² of 1mm thickness layer
AS PRIMER / SEALER	Base: Hardener 0.200 : 0.100 kg/M ²
MORTAR SCREED	Base : Hardener : Aggregates 0.220 : 0.110 : 1.32 kg/M ²
TOPCOAT (COLOUR)	If required. National Guard Epoxy Flooring Topcoat S.F.
SILICA AGGREGATES	0.3 – 1.4 mm, depending on thickness required

NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1	Shore "A" Hardness	ASTM D 2240 – 05	
2	Tensile Strength	ASTM C 307 : 94	
3	Flexural Strength	ASTM C 580 : 1998 BS 6319 Part 3 : 1983	
4	Pull off Strength Bond Strength / Adhesion Strength	ASTM D 4541 : 1995	
5	Compressive Strength	ASTM C 579 - 96	

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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