

TECHNICAL SPECIFICATIONS
DECORATIVE COATINGS
TECHNICAL DATA SHEET
NATIONAL HEAVY DUTY EPOXY FLOOR SCREED

DESCRIPTION	A solvent free epoxy resin mortar screed has been specially developed for taking care of high abrasion. It is three component system, provides heavy duty floor. It has high mechanical strength, anti-skidding, non-dusting and chemical resistance properties.
RECOMMENDED USE	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 by National Guard Epoxy Topcoat SF.

TECHNICAL DATA

COLOURS	Clear
FINISH	Smooth, Antiskid
VOLUME SOLIDS	100%
SPECIFIC GRAVITY KG/L	Clear 1.09 ± 0.05 (of mixed Base + Hardener) Clear 1.90 ± 0.05 (of mixed Base + Hardener + Aggregate)
MIXING RATIO (WEIGHT)	Base & Hardener : Filler (aggregate) 1:6 (Clear)
THICKNESS REQUIRED	5 - 10 mm (system)
DRYING TIME @ 30°C	Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.
Using Aggregate between	For a system as Primer, Mortar Screed & Sealer Coat
0.10 - 1.17mm size	Dry to recoat : (hours) 8 - 12 Ready for use : After 7 days curing at 30°C.

APPLICATION DATA

APPLICATION METHOD	Special Application technique.
SURFACE PREPARATION	Substrate should be free from dust, oil, grease and properly levelled. Cracks to be repaired, if needed sand blasting to be done. Cementitious substrates must be at least 4 weeks old. Substrate temperature should be, minimum 8°C and maximum 30°C. Moisture content should be less than 4% for better performance.
RECOMMENDED SYSTEM (CLEAR)	Material required for 1 M ² of layer thickness 7 - 8 mm
PRIMER	Base: Hardener : 0.160 : 0.096 kg/M ²
MORTAR SCREED	Base: Hardener, Aggregate 1.250 : 0.750 : 12.0 kg/M ²
SEALER / TOPCOAT (CLEAR)	Base: Hardener, 0.160 : 0.096 kg/M ²
SEALER / TOPCOAT (COLOUR)	Instead of clear, apply National Guard Epoxy Flooring Topcoat S.F.
POT LIFE @ 30°C	15 - 20 minutes for each.

MECHANICAL STRENGTH

COMPRESSIVE STRENGTH	80 N/mm ²
FLEXURAL STRENGTH IN TENSION	>18 N/mm ²
ADHESION TO CONCRETE	4 N/mm ²

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CHEMICAL RESISTANCE

National Heavy duty Epoxy Floor Screed dried film.	Unaffected by spills of:
	- 30% Sulphuric Acid
	- 30% Nitric Acid
	- 10% Acetic Acid
	- 20% caustic soda.
- Gasoline, toluene, xylene, styrene, octanol & fruit juices.	
- 20% sugar solution.	

MISCELLANEOUS DATA

FLASH POINT	Above 100°C
SHELF LIFE @ 30°C	18 months in original sealed containers, proper storage conditions

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.