



**NATIONAL DECKSHIELD SYSTEM (CPD) (WATER BASED)
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL DECKSHIELD SYSTEM (CPD) (WATER BASED)

PRODUCT DESCRIPTION	National Deckshield System is a multicomponent flooring system with acrylic polymer, cement and silica sand, consisting of multiple coat system, especially suitable for damp surfaces. National Deckshield system provide tough, leveled smooth surface. The system is designed to hide undulations, poor leveling and damage that have occurred to the sub-floor during its construction.
RECOMMENDED USES	As an effective flooring solution for car parking area with light to medium traffic load, for cementitious surface with suitable floor over coating system.

TECHNICAL DATA

TECHNICAL DETAILS	PRIMER COAT of CPD	BASE COAT of CDP	TOP COAT of CPD
COLOUR, DRY FILM	Grey	Grey	Grey
FINISH, DRY FILM	Smooth / Matt	Smooth / Matt	Smooth / Matt
SPECIFIC GRAVITY	1.80 ±0.02%	1.70 ±0.02%	1.60 ±0.02%
THEORETICAL SPREADING RANGE (mix material)	2.0 – 1.0 M ² /LTR	0.5 – 0.25 M ² /LTR	2.0 – 1.0 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	0.5 – 10 mm per coat	2 – 4 mm per coat	0.5 – 10 mm per coat
PARTICLE COVERAGE	1.5 - 1.7 M ² /LTR	0.4 – 0.2 M ² /LTR	1.5 – 0.7 M ² /LTR
MIXING RATION (by weight)	Cement:sand:polymer:water 50 : 50 : 8 : 32	Cement:sand:polymer:water 50 : 50 : 10 : 40	Cement:sand:polymer:water 50 : 50 : 12 : 48
Pot Life	3 – 4 hours	3 – 4 hours	3 – 4 hours
FLASH POINT	Water Base	Water Base	Water Base

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	12 hours
FULLY CURED	7 days

*With same generic type paint.



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ADVANTAGES

NATIONAL DECKSHIELD SYSTEM (CPD) (WATER BASED)	Organo-inorganic water based composition, very low VOC, strong and tough substrate, ideal solution for leveling and hiding the surface undulations for flooring substrate.
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APPLICATION INSTRUCTION

SURFACE PREPARATION & APPLICATION METHOD	<ol style="list-style-type: none"> 1. All areas shall be mechanically or hand swept clean to remove all contaminations and debris. 2. The whole area should be inspected; any high or protruded spots more than 5 mm should be removed by mechanical grinding. 3. Application temperature should be between 5*-35* C. 4. National Deckshield material should mixed on site, in a mixer, to a homogeneous admixture. 5. Apply primer coat by pouring as required, and leveling it by Swedish blade and or a trowel. 6. Leave 12 hours interval before applying the base coat. 7. Additional layers shall be applied in opposite direction. <p>After 12 hours, apply the topcoat of CPD</p>
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APPLICATION DATA

APPLICATION METHOD	As recommended in application instruction.
CLEANING/THINNING	Water
THINNER (VOLUME)	As required on the site during application
MIXING RATIO (BY WEIGHT)	As recommended in the Technical Data Sheet
SAFE HANDLING TIME	3 – 4 hours



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SYSTEM

RECOMMENDED SYSTEM	System 1: (for Interior application)	
	National Guard Primer for Cement Clear	: 1 coat
	National Guard Epoxy Topcoat S.F.	: 2 coats
	System 1: (for Exterior application)	
	National Guard Primer for Cement Clear	: 1 coat
	National Guard Epoxy Topcoat S.F.	: 1 coat
	National Polyurethane Flooring H.B.	: 1 coat
	(OR)	
	System 2:	
	National Aqua Epoxy Primer Clear	: 1 coat
	National Aqua Epoxy Primer	: 1 coat
	National Aqua Epoxy Flooring Topcoat	: 1 coat
If required antiskid, sprinkle aggregates after first wet coat of topcoat followed by 2nd coat (after 24 hours).		

NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1	Compressive Strength	ASTM C 109:96 BS 6319-2:1983	
2	Pull of Strength	ASTM D 4541-09 ASTM D 4541:1995	

ADDITIONAL DATA

SHELF LIFE @ 30°C	6 months, in original sealed container, with proper storage conditions.
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HEALTH & SAFETY

SAFETY PRECAUTIONS	Generally, most of the water base paints are quite safe to handle with precautions. Avoid skin and eye contact by wearing overalls, gloves, goggles, and mask etc. Spillage on skin should immediately be removed by thorough washing with fresh water and soap or suitable cleaner. Eyes should be flushed with fresh water. Avoid inhalation of vapors and paint mist by wearing suitable mask. In the event of ingestion and eye contact, seek medical attention immediately. Apply the paint in adequate ventilation. Local safety regulations to 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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