



NATIONAL POLYDEX (WATER PROOFING)

PRODUCT DESCRIPTION	National Polydex is a single component water dilutable acrylic copolymer emulsion based system, especially designed to provide a totally seamless, durable water proofing performance for roof protection. It provides a flexible and elastomeric non – permeable seamless membrane with excellent adhesion. It can absorb the possible shocks caused by the contraction and expansion of the substrate surfaces and has excellent solar heat reflection property. It has a very low flame spread property. It contains anti fungal and anti bacterial additives. It has excellent resistance to water, moisture and UV rays.
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RECOMMENDED USES	National Polydex is recommended as a water proofing protective coating on cementitious surfaces, mosaic tiles, metal roofs, wooden roofs, domes etc. of interior or exterior applications. It can be applied on slightly wet or moist areas also. For better protection, if required, can be reinforced with National Fibre glass mesh, while the intermediate coat is wet. It can hide the hairline cracks on surfaces and reduce the impact of harsh atmospheric conditions.
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TECHNICAL DATA

COLOUR, DRY FILM	White or as per requirement
FINISH, DRY FILM	Smooth / Satin
VOLUME SOLIDS (ASTM D2697)	55 ± 2%
SPECIFIC GRAVITY	1.25 ± 0.05
THEORETICAL SPREADING	1.8 – 1.4 M ² /LTR
RECOMMENDED DFT (DRY FILM)	300 – 400 Microns/Coat
RECOMMENDED WFT (WET FILM)	545 – 730 Microns/Coat
FLASH POINT	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	4 – 6 hours
DRY TO RECOAT	12 – 16 hours
HARD DRY	24 hours



ADVANTAGES

NATIONAL POLYDEX	Superior water proofing, high elasticity and tensile strength, provides a protective shield against water, moisture & UV rays, superior adhesion and good impact resistance, low flame spread property and excellent heat reflection ability, seals hairline cracks.
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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	Brush, Roller, Spray etc.
CLEANING/THINNING	Water
THINNER (VOLUME)	Depends on application method
CONV. SPRAY REQUIREMENTS	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure: 2000 – 2500 psi
NOZZLE SIZE	0.018” – 0.021”
MIXING RATIO (BY VOLUME)	NA
POT LIFE @ 30°C (100 ml)	NA

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface. Recommended to apply in such a way that, minimize ponding of water and to improve surface drainage on roof application.	National Polydex (Diluted) as Primer Coat	: 1 coat
	National Polydex (Intermediate Coat)	: 1 coat
	Fix National Fibre Glass Mesh (if Required)	
	National Polydex (Topcoat)	: 2 coats



**NATIONAL POLYDEX (WATER PROOFING)
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1	VOC	ISO 11890 - 2 USEPA - 24	Local Regulatory Requirements
2	Elongation	ASTM D 638 : 1996	
3	Tensile Strength	ASTM D 638 : 1996	
4	Solar Reflectance	ASTM C 1549	

ADDITIONAL DATA

SHELF LIFE @ 30°C	18 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 due 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. 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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