



NATIONAL PROTECT SEAL

PRODUCT DESCRIPTION	National Protect Seal is a single component high build coating for interior/exterior applications with elastomeric acrylic polymer emulsion capable of bridging cracks. It provides a barrier coating against salts and atmospheric gases and protects re-inforced concrete structures. It has a highly durable, protective, breathable membrane which allows water vapour to escape from the substrate and avoid blisters on the surface. It contains anti bacterial and anti fungal additives.
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RECOMMENDED USES	National Protect Seal is used for the protection of concrete structures against carbonation and chloride ion ingress. The product is suitable for concrete repairs, bridge and highway structures, industrial and commercial buildings, multi storey car parks, underpasses, as waterproofing on a variety of substrates etc.
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TECHNICAL DATA

COLOUR, DRY FILM	As per National shade card
FINISH, DRY FILM	Smooth, Satin
VOLUME SOLIDS (ASTM D2697)	53.0 ± 2%
SPECIFIC GRAVITY	1.33 ± 0.04 (For white and pastel colours)
THEORETICAL SPREADING	13.3 – 8.8 m ² /lit.
RECOMMENDED DFT (DRY FILM)	40 – 60 microns/coat
RECOMMENDED WFT (WET FILM)	75 – 113 microns/coat
FLASH POINT	Water based



**NATIONAL PROTECT SEAL
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

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 hrs.
HARD DRY	6 – 8 hrs.
DRY TO OVERCOAT	4 - 5 hrs.

ADVANTAGES

NATIONAL PROTECT SEAL	Elastomeric, crack bridging, waterproof and anti-carbonation coating for concrete. Protects re-inforced concrete structures, anti-carbonation, barrier against salts and atmospheric gases.
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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. Any defects on the substrate should be rectified before starting painting. Application can be done by the recommended application methods.
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APPLICATION DATA

APPLICATION METHOD	Spray: Airless spray or conventional spray. Roller: Cotton roller offers attractive smooth finish. Brush: Recommended for corners and edges painting.
CLEANING/THINNING	Water
THINNER (VOLUME)	Maximum up to 25 % (Depends on the application method).
NOZZLE TIP	0.53-0.78 mm (0.021-0.031")
SPRAY ANGLE	40° - 80°
PRESSURE	20 MPa (200 kp/cm ² , 2800 psi)

SYSTEM

RECOMMENDED SYSTEM	1. National Acrylic Primer (W.B.) :	1 coat
	OR	
	1. National Aqua Siloxane Primer :	1 coat
	OR	
	1. National Penetrating Primer Sealer :	1 coat
	2. National Shield Exterior Filler(If required.):	1 - 2coats
	3.National Protect Seal:	2 coats



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 keep 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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