



NATIONAL SHIELD THERMAL PRIMER (W.B.)
DECORATIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL SHIELD THERMAL PRIMER (W.B.)

PRODUCT DESCRIPTION	National Shield Thermal Primer (W.B.) is an alkali resistant, high quality special acrylic emulsion primer for masonry surfaces. It has excellent adhesion to the surface and has good penetrating property. It provides an excellent base for subsequent coats. It is a water based interior/exterior primer with excellent alkali resistance. It contains anti fungal and anti bacterial additives.
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RECOMMENDED USES	As an alkali resistant penetrating primer for interior/exterior surfaces such as cement plasters, concrete and brick works. Prior to apply, suitable surface preparation is needed. National Shield Thermal Primer (W.B.) can also be used for surfaces like wood, asbestos, and gypsums. Highly recommended as an essential primer for National Shield Thermal topcoats. The surfaces should be dry and free from any contamination prior to primer application.
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TECHNICAL DATA

COLOUR, DRY FILM	White and Pastel Colors
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	24 ± 2%
SPECIFIC GRAVITY	1.40 ± 0.05
THEORETICAL SPREADING	8 – 7 M ² /LTR
RECOMMENDED DFT (DRY FILM)	30 – 35 Microns/Coat (Depends on surface penetration)
RECOMMENDED WFT (WET FILM)	125 – 145 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	20 – 30 minutes
DRY TO RECOAT	1 – 2 hours
FULL DRY	4 – 6 hours



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ADVANTAGES

NATIONAL SHIELD THERMAL PRIMER (W.B.)	Excellent alkali resistance, excellent adhesion to surfaces, good penetration, excellent base coat for subsequent coats, suitable for exterior surfaces, special acrylic based binder, good coverage.
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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	Roller, Brush or Spray
CLEANING/THINNING	Water
THINNER (VOLUME)	Water 10 – 15% depends on the method of application
CONV. SPRAY REQUIREMENTS	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure : 2000 – 2500 psi
NOZZLE SIZE	0.018” – 0.020”
MIXING RATIO (BY VOLUME)	NA
POT LIFE @ 30°C (100 ml)	NA

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	National Shield Thermal Primer (W.B.) : 1 coat
	National Shield Thermal (Thermal Insulating Paint): 2 coats
	OR
	Other National Recommended System
	For Galvanized or Aluminum Surfaces use National Wash Primer before application.

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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