

NATIONAL SHIELD THERMAL (HEAT INSULATING PAINT)
DECORATIVE COATINGS

**TECHNICAL DATA SHEET** 

# NATIONAL SHIELD THERMAL (HEAT INSULATING PAINT)

PRODUCT DESCRIPTION	National Shield Thermal is a multi-functional heat insulating paint, based on elastomeric, flexible and high quality 1000 pure acrylic emulsion, contains hollow micro ceramic sphere which encapsulates the surface from heat transfer, as well a thermal shock of the coating for a long period of time. It has very good weather and UV resistances with excellent adhesion. It can be used as a lightweight thermal insulative decorative coating for interior and exterior surfaces. It contains anti fungiand anti bacterial additives.		
RECOMMENDED	In the modern construction technology, National Shield		
USES	Thermal is highly recommended for, lightweight multifunctional heat insulations, waterproofing roof systems, duct coating etc. It can also be applied on interior or exterior surfaces like concrete, brickwork, plaster, and masonry for decorative purpose. For metal roof surfaces and duct coating use suitable primer, before National Shield Thermal application. It can be used for sealing the hairline cracks also. It can be overcoated with National Acrylic Rock, National thane etc. for variety of colors.		

## **TECHNICAL DATA**

COLOUR, DRY FILM	White & Light colors
FINISH, DRY FILM	Matt
VOLUME SOLIDS	$45 \pm 2\%$
(ASTM D2697)	
SPECIFIC GRAVITY	$1.07 \pm 0.05$
THEORETICAL SPREADING	$1.10 - 0.75 \mathrm{M}^2/\mathrm{LTR}$
RECOMMENDED DFT (DRY	400 – 600 Microns/Coat
FILM)	
RECOMMENDED WFT (WET	890 – 1335 Microns/Coat
FILM)	
FLASH POINT	Water Base

## **DRYING TIME**

Drying time @ 30° (Temperature, humidity, air movement, film thickness and number of coats all	
affect the drying time.)	
TOUCH DRY	4 – 5 hours
DRY TO RECOAT	12 – 16 hours
DRY TO OVER COAT	24 hours



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# **ADVANTAGES**

NATIONAL SHIELD THERMAL (	Light weight insulating paint which reduces the heat transfer
HEAT INSULATING PAINT)	and save energy or electrical consumptions of air conditioning
SYSTEM	equipment, seals hairline cracks, decorative look, water
	proofing property. Very good UV resistant and excellent
	adhesion, and absorbs the possible thermal shocks of
	expansion and contraction of surfaces.

# **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.

# **APPLICATION DATA**

APPLICATION METHOD	Roller, brush, spray, trowel
CLEANING/THINNING	Water
THINNER (VOLUME)	Water up to 5% depends on application
CONV. SPRAY REQUIREMENTS	Possible
MIXING RATIO (BY VOLUME)	NA
POT LIFE 2 30°c (100 ml)	NA

## **SYSTEM**

	National Shield Thermal Primer (WB)	:	1 Coat
<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface.	National Shield Thermal	:	2 Coats
For variety of colors, recommending over coat.	For galvanized or aluminum surfaces use Primer before application.	Nation	nal Wash

# **ADDITIONAL DATA**

SHELF LIFE @ 30°C	18 months, in original sealed container, with proper storage
	conditions.



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## **HEALTH & SAFETY**

SAFETY	Generally, most of the water base paints are quite safe to handle
PRECAUTIONS	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 vapors 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.

# **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.

**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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