

Technical Data Sheet

NATIONAL SHIELD TOPCOAT

DESCRIPTION

National Shield Topcoat is a premium quality, pure acrylic based exterior coating, designed to exhibit anti-carbonation property, weathering resistance and durability. It is available in matt, silk, semi-gloss and gloss finishes.

TYPICAL PROPERTIES

• Color & Appearance				
Color of Dry Film	As per National Paints shade card			
Finish Dry Film	Matt, smooth	Silk, smooth	Semigloss, smooth	Gloss, smooth
• Specific Gravity (ISO 2811-1)				
	1.36 ± 0.05	1.2 ± 0.05	1.21 ± 0.05	1.17 ± 0.05
• Volume Solids (ASTM D 2697)				
	31 ± 2%	36 ± 2%	36 ± 2%	43 ± 2%
• Film Thickness				
Wet Film Thickness (WFT)	97 – 129 microns/coat	83 – 111 microns/coat	83 – 111 microns/coat	69 – 93 microns/coat
Dry Film Thickness (DFT)	30 – 40 microns/coat	30 – 40 microns/coat	30 – 40 microns/coat	30 – 40 microns/coat
• Drying Time				
Touch Dry @ 30°C	1 – 2 hours	1 – 2 hours	1 – 2 hours	1 – 2 hours
Dry to Recoat @ 30°C	2 – 4 hours	2 – 4 hours	2 – 4 hours	2 – 4 hours
Hard Dry @ 30°C	6 – 8 hours	6 – 8 hours	6 – 8 hours	6 – 8 hours
• Theoretical Spreading Rate				
	10.3 – 7.8 m ² /liter	12.0 – 9.0 m ² /liter	12.0 – 9.0 m ² /liter	14.3 – 10.7 m ² /liter

USES

National Shield Topcoat is recommended as a durable coating for exterior applications on:

- Concrete
- Cement Plaster
- Gypsum board
- Brickwork

ADVANTAGES

- Excellent alkali resistance
- Resistance to CO₂ diffusion
- Excellent adhesion
- Excellent crack bridging ability
- Excellent weathering resistance
- Low dirt pick-up

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COMPLIANCE & CERTIFICATIONS

National Shield Topcoat complies with ESMA ECAS Green Label 5 Star and DCLD Certificate of Product Conformity.

*Certificates are available upon request.

PACKAGING SIZE

- 0.9 liters
- 3.6 liters
- 18 liters

SURFACE PREPARATION

The surface should be clean, free of oil, grease, loose particles, other contaminants and suitably primed before application of coating.

APPLICATION METHOD

- Brush
- Roller
- Spray - Conventional and Airless
Airless Spray Requirements
 - Pressure: 2000 – 2500 psi
 - Nozzle Size: 0.021” – 0.027”

Cleaning solvent / Thinner: Water

Dilution: 20 – 30%, depends on the method of application.

RECOMMENDED SYSTEM

National Acrylic Primer (W.B.) Or National Shield Alkali Resistant Primer	1 coat
National Shield Exterior Filler (if required)	1 - 2 coats
National Shield Topcoat	2 coats
OR	
Other National Paints recommended system	

SAFETY PRECAUTIONS

- Avoid skin and eye contact by wearing overalls, gloves, goggles, and mask etc.
- **Skin Contact:** Rinse with water. If skin irritation or rash occurs, seek medical attention immediately.
- **Eye contact:** Rinse cautiously with water for several minutes. Consult an eye specialist immediately.
- Avoid inhalation of vapors and paint mist by wearing suitable mask.
- In the event of ingestion seek medical attention immediately.
- Painting must be carried out in well-ventilated area.
- Local safety regulations need to be followed.

STORAGE & SHELF LIFE

- 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.
- Shelf life at 30°C is 18 months in original sealed container, with proper storage conditions.

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 safety details kindly refer safety data sheet.