



NATIONAL SHIELD SUPER DURABLE (GLOSS/SILK)
DECORATIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL SHIELD SUPER DURABLE (GLOSS/ SILK)

PRODUCT DESCRIPTION	National Shield Super Durable (Gloss/Silk) is a 100% silicone modified pure Acrylic Emulsion paint formulated to provide a super durable, long lasting protective coating to concrete/cement plaster in the extreme climate of the Gulf region. National Shield Super Durable (Gloss/Silk) protects the concrete from carbonation. It provides a breathable coating with extra ordinary UV and weather resistance with very less dust or sand pick up. It has excellent adhesion to various substrates. It contains anti fungal and anti bacterial additives.
RECOMMENDED USES	It is used for decorative and protective smooth finish application on interior and exterior concrete and cement plaster to withstand the dusty and extreme humid, harsh climate of the Gulf. Over coating on the textured or grooved finish reduces the dust and sand pick-up on it.

TECHNICAL DATA

COLOUR, DRY FILM	Refer to National Shade Card	
FINISH, DRY FILM	Gloss	Silk
VOLUME SOLIDS (ASTM D2697)	43 ± 2%	40 ± 2%
SPECIFIC GRAVITY	1.17 ± 0.05	1.30 ± 0.05
THEORETICAL SPREADING	11 – 8.5 m ² /Ltr.	10 – 8 m ² /Ltr.
RECOMMENDED DFT (DRY FILM)	40 – 50 Microns/Coat	40 – 50 Microns/Coat
RECOMMENDED WFT (WET FILM)	95 – 115 Microns/Coat	100 – 125 Microns/Coat
FLASH POINT	Water Base	Water Base
VOC	Complies to ESTIDAMA	Complies to ESTIDAMA

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	1 – 2 hours
*DRY TO RECOAT	2 – 4 hours

* With same generic type paint.



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ADVANTAGES

NATIONAL SHIELD SUPER DURABLE (GLOSS/SILK)	Super durable, anti carbonation property, extra ordinary UV and weather resistance, highly washable, very less dust and sand pick up, excellent adhesion, very good alkali resistance, good coverage, and excellent water vapour permeability.
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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.
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APPLICATION DATA

APPLICATION METHOD	Roller, Brush or Spray
CLEANING/THINNING	Clean water
THINNER (VOLUME)	Max. 5-10% depends on method of application.
AIRLESS SPRAY REQUIREMENTS	Pressure: 2000 – 2300 psi
NOZZLE SIZE	0.021” – 0.027”
MIXING RATIO	Single pack
SPRAY ANGLE	65° - 80°

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface. For weak surfaces National Guard Primer for Cement Clear is preferred as primer.	National Guard Primer for Cement Clear	: 1 coat
	OR	
	National Acrylic Primer W.B.	: 1 coat
	OR	
	National Shield Alkali Resistant Primer	: 1 coat
	National Shield Super Durable (Gloss/Silk)	: 2 coats

NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1.	Anti-Carbonation Carbon Dioxide Diffusion Coefficient	TP 950/05/13569 Technology Center, UK	
2.	Water Vapor Transmission Rate	TP 950/09/16074 Technology Center, UK	
3.	Crack Bridging Ability	BS EN 1062-7 (Method A) ASTM C 1305	
4.	Adhesion Strength	ASTM D 4541:2002	



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5.	Reduction in Water Absorption	ASTM D 870-12	
6.	Resistant to Impact	EN ISO 6272-1:2002	
7.	Resistance to Salinated Fog	ASTM B 117-07 A	
8.	VOC	USEPA 24	Local Regulatory Requirements

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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