



**NATIONAL ALIPHATIC ACRYLIC H.B.
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL ALIPHATIC ACRYLIC H.B.

PRODUCT DESCRIPTION	A single component, special methacrylate polymer based. Aliphatic Acrylic H.B. is a tough, long lasting, coating with excellent adhesion and weather resistance. Additionally it has excellent anti carbonation and moisture vapour transmission properties.
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RECOMMENDED USES	Specifically recommended as a topcoat on cementitious surfaces, car parking structures, walls, columns, bridges etc. to prevent carbonation and chloride ion ingress. It provides good mechanical and abrasion resistance to interior/exterior surfaces. It can be applied on metal, wooden surfaces also.
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TECHNICAL DATA

COLOUR, DRY FILM	As per National Shade Card
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	54 ± 2%
SPECIFIC GRAVITY	1.35 ± 0.05
THEORETICAL SPREADING	7.2 M ² /LTR
RECOMMENDED DFT (DRY FILM)	75 Microns/Coat
RECOMMENDED WFT (WET FILM)	140 Microns/Coat
FLASH POINT	32°C

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	1 hour
DRY TO RECOAT	3 – 4 hours
HARD DRY	24 hours

ADVANTAGES

NATIONAL ALIPHATIC ACRYLIC H.B. SYSTEM	Single component High Build Acrylic, excellent adhesion on various surfaces. Excellent anti carbonation and moisture vapour transmission properties, excellent weather resistance, tough film, long durable.
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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	Spray, Roller or Brush (touch – up)
CLEANING/THINNING	National Acrylic Thinner
THINNER (VOLUME)	Up to 5% depending on method of application.
CONV. SPRAY REQUIREMENTS	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure : 2100 psi
NOZZLE SIZE	0.018” – 0.020”
MIXING RATIO (BY WEIGHT)	NA
POT LIFE @ 30°C (100 ml)	NA

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	<u>For cementitious surface:</u>	
	National Penetrating Siloxane Primer Sealer	: 1 coat
	National Aliphatic Acrylic H.B.	: 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 Centre, UK	
2	Anti – Carbonation Carbon Dioxide Diffusion Coefficient after 2000 hours Accelerated Weathering	TP 950 / 05 / 13569 Technology Centre, UK	
3	Water Vapor Transmission Rate	TP /N950 / 09 / 16074 Technology Centre, UK	
4	Chloride Ingress Chloride Ion Diffusion Coefficient	TP 014H / 85 / 2763 Technology Centre, UK	
5	Rapid Chloride Permeability	ASTM C 1202 : 2012	
6	Crack Bridging Ability	ASTM C 836	
7	Tear Resistance	ASTM 624 – 98	
8	Reduction in Water Absorption	ASTM D 870	
9	Surface Spread of Flame	BS 476 Part 7 : 1997	
10	VOC	USEPA – 8260	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	<p>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.</p> <p>This product contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulations to be followed.</p>
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STORAGE & HANDLING

STORAGE	<p>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 stock 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.</p>
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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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