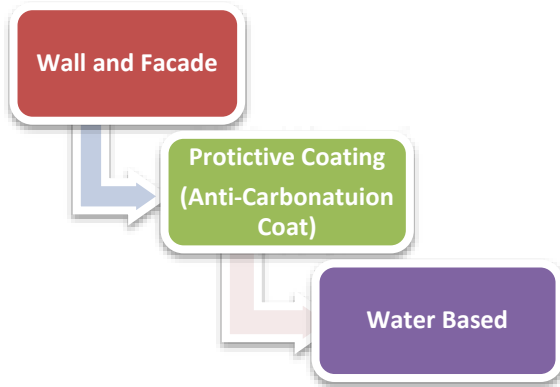


FAMILY TREE



PRODUCT DESCRIPTION

High build elastomeric, microporous coating exhibiting excellent resistance to attack from carbon dioxide, airborne chlorides and acid rain, with exceptional weathering resistance. NASA Paint ACP has excellent crack bridging properties, yet provides a smooth protective, decorative coating for concrete and other masonry surfaces. For effective anti-carbonation on protection a two-coat treatment is recommended after the application of the silane siloxane based impregnating primer. The product is formulated to give a tough flexible and coloured coating which will give a waterproofing coating to a wide variety of substrates. A textured finish may be obtained if required.

FIELD OF APPLICATION

Area Type	: <input checked="" type="checkbox"/> Dry	<input checked="" type="checkbox"/> Semi-wet	<input type="checkbox"/> Submerged
Type of Application	: <input checked="" type="checkbox"/> Horizontal	<input checked="" type="checkbox"/> Vertical	

AREA OF APPLICATION

- Bridge abutments.
- External concrete surfaces of storage tank and masonry surfaces.
- Multistory building and villas.
- Where a high external tough coating is required.
- Concrete cladding.

PROPERTIES

- | | |
|--|--|
| • High build elastomeric, microporous coating. | • Exceptional weathering resistance. |
| • Excellent waterproofing characteristics. | • Excellent crack bridging properties. |
| • Protective coating. | • Excellent resistance to salt and chloride attacks. |
| • Excellent resistance to carbon dioxide, airborne, chlorides and water borne. | |

PREPARATION

Working Conditions	: 5°C to 40°C.
Substrate	: The substrate should be sound clean and free from dust and all loose or flaking material. All holes and deep cracks should be filled with a suitable filler. All traces of oil, grease, chemical contaminants and extraneous mater should be removed. Any traces of mould or algae must be removed and the area treated with a suitable anti-fungicide or bleach solution. On new cementitious substrates leave for 14 days before coating. If in doubt leave for up to 30 days to fully cure before coating.

MIXING

Mixing Speed	: 400 – 600 rpm.
Process	: Stir NASA Paint ACP thoroughly prior to use.

APPLICATION

Application Method	: Roller, brush or airless spray.
Thickness	: Approximately 250 microns per coat.
Coverage / Yield	: Approximately liter/ 2m ² @500 microns thickness.
Position	: The described process is suitable for vertical & horizontal application.
Priming	: The prepared area should be soaked with water immediately prior to the application. In high porosity / critical areas, it is recommended to prime the area with suitable Primer such as Apollo range primers diluted with water By 1:7 or bonding agent such as NASA Bond 200. Application primer should be applied only on dry, clean, sound and free from oil, grease. Is applied at a rate 1 m ² / liter depends on the porosity of the substrates. It is recommended to use a polymer modified resin based primer with cementitious substrate. All grit blasted steel reinforcements should be primed within 2 to 4 hours with one or two coats of NASA zinc rich.
Process	: NASA Paint ACP can be applied normally at temperatures between 3°C and 38°C. Apply evenly with roller, brush or airless spray. For airless spray 5 - 10% dilution is recommended. A one coat or two-coat system may be used. Two coats should always be used on dark, absorbent and heavily textured surfaces and when full carbonation protection is required. Porous, rough and irregular surfaces will reduce coverage rates.
Cleaning	: All tools / equipment shall be cleaned immediately after use with fresh water.

PACKING

Standard Package	: NASA Paint ACP Available in 5 & 18 liters drums.
Custom Package	: Special packages can be arranged for large requirements.
How to Order	: Specify the Product Name followed with a hyphen and package size.

STORAGE CONDITION

Shelf Life	: A shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 40°C in original unopened bags.
Temperature	: 2°C and 40°C
Points of Attention	: Store in shaded area and properly sealed in its original packing

TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALU
Standard	BS EN 123506, BS EN 123908, BS 63197, BS 63193, BS 1881208, ASTM C109, ASTM C1202 & ASTM C157	
Testing Conditions	Tests were carried out in Apollo R&D laboratory @ 25°C	
Component	Single component	
Form	Liquid	
Colour	Standard Coloured	
Density	1.25 ± 0.05	
Solids content:	By weight 55 ± 2% By volume 50 ± 2%	
Touch dry time:	20 - 40 min @ 25°C	
Over coating time:	1.5 hr @ 35°C 3 hr @ 25°C	
Elongation at break:	ASTM D412	≥325% @ 7 days
Tensile Strength:		≥1.5 MPa @ 7 days
Crack bridging capacity:	ASTM C1305:95	> 2 mm

This Technical Data Sheet is prepared based on extensive research and practical experience. With the varieties of the materials and conditions of application is out of our control, Apollo assumes no responsibility for the obtained results and / or damages caused by the usage of this product. Apollo Technical Service family is always available at your disposal for any advice and directions that might be required.



NASA Paint ACP

NASA Paint ACP – 5 & 18 LTR – ASTM

Single component water based acrylic elastomeric protective anti-carbonation coating system.

Tack free time:		35 - 45 min @ 20°C 10 - 15 min @ 35°C
Carbonation depth:	TM:NT Build 372:1991-02 700 hr @ severe conditions of humidity &20% Co2	No penetration in coated sample 0.6 mm penetration in control
Chloride ion diffusion coefficient:	TM:NT Build 492:1999-11	7.2×10 m ² /sec
Reduction in chloride ion penetration in severe environment with focused applied voltage :	ASTM C1202	98%
VOC:		< 50 g/ltr

ATTENTION

PPE : It is recommended to use full PPE while working with the product to avoid any possibility of irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

Hazardous Classification : Non-Hazardous transportation.

Fire : Non-flammable.

APOLLO AT THE GLANCE

Apollo is confident with the technical solutions and high quality end products served to the customers.

Apollo invites you to explore other services and products:

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|--|--------------------------------------|--------------------------------------|
| • R&D and manufacturing custom solutions | • Adhesives | • Bonding Agents Systems |
| • Building Finishing Systems | • Concrete Admixture | • Concrete Repair Systems |
| • Flooring Systems | • Grouts & Anchoring Systems | • Painting & Putty Systems |
| • Protective Coatings | • Sealant & Jointing Solutions | • Structural Strengthening Solutions |
| • Surface Treatment Solutions | • Tile Adhesive & Grouting Solutions | • Waterproofing Systems |

This Technical Data Sheet is prepared based on extensive research and practical experience. With the varieties of the materials and conditions of application is out of our control, Apollo assumes no responsibility for the obtained results and / or damages caused by the usage of this product. Apollo Technical Service family is always available at your disposal for any advice and directions that might be required.