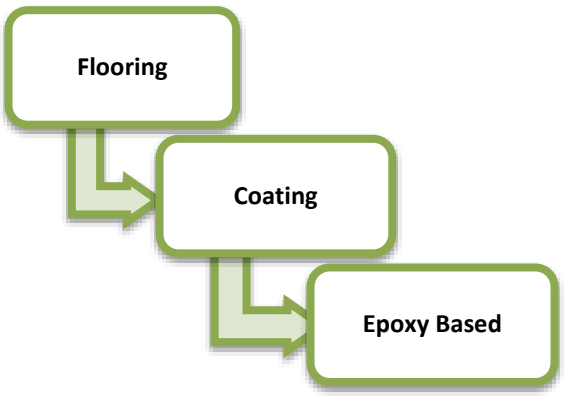
NASA Epoxy HP200

NASA Epoxy HP200 – 18 Ltr – ASTM

Nontoxic solvent free epoxy protective coating for concrete and metal

FAMILY TREE



PRODUCT DESCRIPTION

Nasa Epoxy HP200 is a solvent free, non-toxic; high build epoxy resin protective coating with outstanding chemical and mechanical properties. Nasa Epoxy HP200 is supplied as a two component product in pre-weighted base and hardener packs, ready for site mixing.

FIELD OF APPLICATION

Area Type	:	☑ Dry	☑ Semi-wet	☐ Submerged
Type of Application	:	☑ Horizontal	☐ Vertical	
Substrates	:	☑ Concrete	☐ Wood	☑ Screed
		☑ food processing and manufacturing plants	☐ Plaster	☐ Marble

Applications

Nasa Epoxy HP200 is designed for internal applications such as:

- Heavy duty protective coating for concrete and steel.
- Heavy duty wall and floor coating in food processing
- Plants, grain silos, dairies, breweries, hospitals, and pharmaceutical industries.
- High chemical resistant protective coating for power stations, oil refineries, and sewage treatment plants.

PROPERTIES

- Suitable for contact with foodstuffs.
- Excellent resistance to mould and fungus growth.
- Excellent resistance to a variety of chemicals.
- Resistant to sewage effluents.
- Easy to clean with a smooth, hard and glossy finish.
- Non-toxic, low odour and taint free.
- Exhibits good mechanical properties.

PREPARATION

Working Conditions	:	5° to 30°C.
Tools / Equipment	:	Brush or Roller or Spray machine.
Substrate	:	*Concrete surfaces:* The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by grit blasting or water jetting. All exposed blow holes should be filled with epoxy putty. *Steel surfaces:* All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 1/2.
Priming	:	Concrete substrates should be primed with NASA Epoxy Primer. The primer should be allowed to cure for 24 hours. Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.
Joints	:	In general, the product shall not be placed above expansion or construction joints. NASA Flexseal shall be used to manipulate the joints.

MIXING

Ratio	:	No materials / liquids shall be added of any type. The product is Two Component just mixed together.
Process	:	To ensure proper mixing, a mechanically powered mixer or drill fixed with suitable paddle should be used. Stir the content of each component separately to disperse any settlement. Add the entire content of the hardener to the base and mix for 3 minutes and until uniform colour and consistency are achieved.

APPLICATION

Application Method	:	By roller or brush or airless spray machine.
Coating Thickness	:	200 microns / coat.
Coverage	:	Approximately 5m² /liter @ 200 microns. Two coats should be applied to achieve 400 microns dry film thickness.
Position	:	The described process is suitable for vertical and horizontal applications.
Priming	:	Concrete substrates should be primed with NASA Epoxy Primer. More than one coat may be required for highly porous or textured surfaces.
Process	:	Nasa Epoxy HP200 can be applied by brush, roller or airless spray machine. The first coat should be applied to obtain a continuous uniform coating. The second coat should be applied within the over coating time to achieve the maximum adhesion between the two coats. *Notes:* • Nasa Epoxy HP200 should not be applied over existing coatings. However it can be applied on top of itself, by maintaining the mentioned recoatabel time. Application should not be undertaken if the temperature is below 5°C, nor when the relative humidity exceeds 90%. • Application should not be done, when there is standing or running water. • Nasa Epoxy HP200 is not colour stable when exposed to direct sun light nor when in contact with some chemicals. However this colour change does not affect the performance of the coating. • Precaution is recommended if the application is taking place at high temperatures (above 30°C).
Cleaning	:	All tools / equipment shall be cleaned immediately after use with NASA Cleaner. Hardened materials should be cleaned mechanically with Solvetech.

PACKING

Standard Package	:	Nasa Epoxy HP200 available in 18 litter .
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	:	12 months from the date of manufacturing.
Temperature	:	2°C and 50°C.
Points of Attention	:	Store in shaded area and properly sealed in its original packing.

TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALUE
Standard	ASTM	
Testing Conditions	Tests were carried out in Apollo R&D laboratory @ 25°C	
Component		Two component Part A – Resin Part B – Hardener
Form		Liquid
Colour		Coloured
Bond strength	ASTM D4541-85	> 2 MPa
Compressive strength	BS6319, Part 2 : 1983	≥ 70 MPa
Tensile strength	BS6319, Part 7	≥ 25MPa
Pot life		40 - 50 min @ 25°C 20 - 30 min @ 35°C
Re-coatable Time		5 - 16 hr @ 25°C
Full cure		7 days @ 25°C
Specific Gravity	ASTM D1475	1.2 ± 0.1 g/cm³
Taber abrasion resistance: **(1000 g, 1000 cicle)** **ASTM D4060, weight loss** **CS17 wheel**		< 85 milligrams
Solid content		100%
VOC		< 10 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	:	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:

• 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