

# Technical data sheet

## Sam Floor AB Coat



### Product description.

A solvent free, Two-component, polyamine-cured epoxy coat for concrete substrates.

### Characteristics

- Good self-smoothing properties.
- Excellent adhesion on concrete substrates.
- Anti-Bacterial properties.
- Excellent abrasion and impact resistance with excellent workability.
- Applied over Sam flooring sealers for warehouses, garages, dairies, factories, laboratories, aircraft hangars, food, beverage and plant rooms.
- Excellent water and Chemical Resistance.
- Designed for Pharmaceutical and other medical or laboratory areas, Showrooms, Chemicals production filed and Oil & Gas plants.
- Can be mixed with slip resistance additives -Sam anti-Skid to give excellent anti-Skid Properties.

### Physical properties.

Colour Gray, (other colours available on request)

Texture Gloss

Mixing and application Information	
Number of components	Two
Mixing ratio	By Volume, base to hardener: 2 / 1
Specific gravity	Approx. 1.35 g/ml
Volume solids	98±2%   Tested acc. ASTM D 2369
VOC (Supplied)	Approx. 30 g/liter
Flashpoint	>25°C
Brush	For corners and edges.
Roller	Recommended.
Thinner/Cleaner	Cleaning solvent: SAM Thinner No. 1 Thinner not to be used to dilute the product.
Pot life	60 min at 25 C°

### Recommended film thickness range

Dry film thickness per coat (µm)	150 – 400 µm	ASTM D1186 ASTM D1212
Wet film thickness per coat (µm)	153 – 408 µm	
Theoretical spreading rate (m <sup>2</sup> /L)	6.53 – 2.45 m <sup>2</sup> /L	

- Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.
- Coverage on Non slip aggregate would reduce considerably.

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### Surface Preparation

#### Concrete substrates

- Surfaces should be treated in accordance with SSPC SP13/NACE NO 6 /ASTM D4258 -05.
- Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material to ensure adequate adhesion,
- As a general rule the concrete must be stayed to full cure (28days) before any application of flooring paint system.

#### Coated substrates

- Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material to ensure adequate adhesion.
- Roughen the old coated surface to ensure coating adhesion.

### Drying and recoating information

Substrate temperature	23°C	30°C		
Touch dry	3 Hour	2 Hour	ASTM D 1640	
Hard dry	16 Hours	12 Hours		
Full cure	5 Days	3 Days		
Dry to recoat	Min.	20 Hours		16 Hours
	Max	Indefinite		Indefinite

The drying and curing periods are established by subjecting the product to controlled temperatures and a relative humidity level that does not exceed 85%, and at average DFT range for the product.

### Application conditions

- Avoid the formation of moisture on the surface, it is recommended that the temperature of the substrate remains at least 3°C higher than the dew point of the surrounding air, during painting process and until hard dry of the paint. It is important to take measurements of the temperature and relative humidity in the area surrounding the substrate according to ISO 8502-4.
- It is recommended to not exceed the surface temperature of approximately 45°C.
- For optimal results, it is important to mix the product thoroughly, making sure to combine the base and hardener in the recommended ratio.
- It is not recommended to dilute the product by thinner.
- When working in small, cramped, confined spaces, it is important to ensure sufficient ventilation during both application and drying time.
- It is important to monitor the temperature of the paint, as it can impact its viscosity. To achieve the desired film thickness, for additional information, please get in touch with your Local SAMCO office.

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### Safety Precautions

- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes.
- Avoid inhalation of spray mist, it is important to take appropriate precautions. Skin contact should also be avoided, and any spills should be promptly cleaned up using soap, water, and a suitable cleanser. If the product comes into contact with the eyes, they should be thoroughly flushed with water and medical attention should be sought immediately.
- To ensure safe handling and use, please follow the guidelines below:
  - Wear appropriate personal protective equipment, such as gloves, eye protection, and respiratory protection, when handling or using this product.
  - Avoid direct skin contact and inhalation of dust, mist, or vapor.
  - If skin contact occurs, immediately wash the affected area with soap and water.
  - If the product comes into contact with the eyes, flush them thoroughly with water and seek medical attention immediately.
  - Use this product in a well-ventilated area to minimize the risk of inhalation.
  - Store the product in a cool, dry place, away from sources of heat or ignition.
  - Keep the product out of reach of children and animals.
  - Follow all applicable regulations and guidelines for handling, transportation, and disposal of this product.

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### Storage and shelf life

Ensure compliance with national regulations, proper storage guidelines must be followed for the product. The cans should be stored in a well-ventilated area that is dry, cool, and kept away from any heat or ignition sources. It is important to ensure that the cans are tightly closed at all times to maintain safety.

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### Disclaimer

All information in this document has been prepared to the best of SAMCO's knowledge, based on laboratory testing and practical experience to ensure good workmanship. However, the responsibility for executing the work stays with the applicator/ contractor/sub-contractor. SAMCO products are used under conditions beyond SAMCO's control. Users should always consult SAMCO for specific guidance on the general suitability of this product for their needs and specific application practices. SAMCO reserves the right to change the given data without further notice.