

# Smart Epoxy Paint

SPEP  
5 Litre



## Description

2-component topcoat system designed for application on heavy structural steelwork & flooring. This product have excellent adhesion on many types of substrate included mild steel, GI sheet, aluminium, cement, fibreglass & etc. It also proven performs well under aggressive environment.

## Usage

For application on heavy structural steelwork & flooring.

## Composition

Pigment	:	Lightfast non-lead pigments and mineral extenders
Binder	:	Epoxy resin.
Volume Solid	:	White ~60% (nominal), others colours will vary.
Diluent	:	Thinner

## Properties

Finishing	:	Gloss finish
Colour	:	Refer to color card.
Theoretical Coverage	:	5 - 8m <sup>2</sup> / Litre (actual coverage dependent on substrate condition.)
Drying Time	:	Dust free: 30 minutes Dry to handle: 2 hours Full curing: overnight
Recoating Interval	:	30 to 45 minutes.

## Application Method

Brush	:	For normal use thinning is not usually necessary. Thin with max 5% with thinner.
Roller	:	For normal use thinning is not usually necessary. Thin with max 5% with thinner.
Conventional Air Spray	:	Thin with max 10% by thinner.
Airless Spray	:	Ready for use. Thinning is not usually necessary.

## Surface Preparation

### Concrete

Surface to be painted must be dry and free from grease, dirt and other contaminants. Smoothen surface with suitable grade sand paper and dust off before application of paints. For painting of concrete surfaces and floor, care must be taken to ensure there is no excessive rising dampness from the substrate as excessive rising dampness will cause the Epoxy Paint Film to bulge or blistering and causing premature paint failure like peeling and chipping. Pretreatment of concrete floor by washing with acid is highly recommended.

## Metal

Surface to be painted must be dry and free from grease, dirt and other contaminants. Steel surfaces should be sanded or wire brushed to remove mill scales and rust.

## Previously Painted

Remove all loose, defective and unstable paint film. Rusted and defective area should be sanded. Sound paint film should also be sanded to provide anchorage for new coating.

### Painting Guide

Surface	Primer	Sealer (1 coat)	Finish (1 - 3 coats)
Wood	-	Smart Epoxy Paint	Smart Epoxy Paint
Concrete (Flooring)	Primer Clear	Smart Epoxy Paint	Smart Epoxy Paint
Metal	-	Smart Epoxy Paint	Smart Epoxy Paint

Smart paints

## Composition / Information on Ingredients

Component	% by wt
Alkyd Resin	<90
Kerosene	<10

## Hazard Identification

Hazard	Identification
Fire and explosion hazards	Liquids can release vapors that can readily form flammable mixtures at temperatures at or above the flash point.
Health hazards	May cause irritation of eye, mouth, and throat after prolonged exposure. Vapors may cause drowsiness and dizziness.

## First Aid Measures

General advice	:	When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
Inhalation	:	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.
Skin contact	:	Remove all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser.
Eye contact	:	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.
Ingestion	:	If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT INDUCE VOMITING.

## Fire Fighting Measures

CLASSIFICATION	:	Flammable, harmful
*FLASH POINT	:	35oC
*EXPLOSIVE LIMITS (% BY VOLUME):		
• LEL	:	0.6
• UEL	:	7.0
FIRE EXTINGUISHING MEDIA	:	Foam, CO2, Dry Powder, sand
FIRE FIGHTING PROCEDURES	:	Respiratory protection is required for fire fighting personnel. Do not breathe fumes. Stay upwind, if possible.
*properties of solvent used		

## Accidental Release Measures

Personal precautions	:	Put on adequate protective equipment. Avoid breathe vapours.
Environmental precautions	:	Keep away from drains, surface-water, ground-water and soil.
Methods for cleaning up	:	Collect as much as possible in a clean container for disposal. Cover the remainder with inert absorbent. Disposal according to local.

## Handling and storage

Handling	:	Avoid prolonged or repeated contact with skin. Extinguish any naked flames. Remove ignition sources. Avoid sparks. Do not smoke. Do not empty into drains.
Handling Temperatures	:	Ambient.
Storage	:	Keep away from direct sunlight and other sources of heat or ignition. Do not smoke in storage areas. Keep container tightly closed and in a well-ventilated place.
Storage Temperatures	:	Ambient.
Product Transfer	:	Earth all equipment.
Recommended Materials	:	For containers or container linings, use mild steel or stainless steel. For container paints, use zinc silicate.
Unsuitable Materials	:	For containers or container linings, avoid plastics and aluminium. For lines and fittings, avoid natural, neoprene or nitrile rubbers.

## Exposure Controls / Personal Protection

Ventilation	:	Use in well ventilated area with local exhaust ventilation. Ventilation required and equipment must be explosion proof. Use away from all ignition sources.
Respiratory Protection	:	Approved respiratory protective equipment must be used when vapor or mist concentrations exceed suggested exposure limits.
Eye Protection	:	Normal industrial eye protection practices should be employed.
Skin Protection	:	Impervious gloved must be worn. If contact is likely oil impervious clothing must be worn.

## Physical and Chemical Properties

Appearance	:	liquid
Colour	:	Available in various colour
Odour	:	Aromatic Hydrocarbon
Ph	:	Not applicable
Flash point	:	24 °C closed cup
Auto-ignition temperature	:	370 °C
Relative density	:	1.10 kg/l to 1.50 kg/l
Solubility	:	water solubility immiscible
Viscosity	:	100 ± 10 s/F4/RT
Explosion limit	:	- lower 1 vol. % - upper 10.8 vol. %

## Stability/reactivity

Stability	:	Stable under normal use conditions. Reacts with strong oxidizing agents.
Conditions to Avoid	:	Heat, flames and sparks.
Material to Avoid	:	Strong oxidizing agents.
Hazardous Decomposition Products	:	Not applicable.

## Toxicological Information

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Acute toxicity: No data is available on the product itself.

Local effects: Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

## Ecological Information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. Product does not contain any organic halogens.

## Disposal Considerations

Waste Disposal : Recover or recycle if possible. Otherwise incineration.  
 Product Disposal : Recover or recycle if possible. Otherwise incineration.  
 Container Disposal : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Send to drum re-coverer or metal reclaimer. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

## Transport information

Transport only in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labeling), ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

### Land transport

ADR/RID :

Class	:	3
UN-No	:	1263
Description of the goods	:	PAINT
Packing group	:	III
Release of danger		

### Sea transport

IMDG:

Class	:	3
UN-No	:	1263
Marine pollutant	:	Marine pollutant
Proper technical name		PAINT
Packing group	:	III
Release of danger	:	

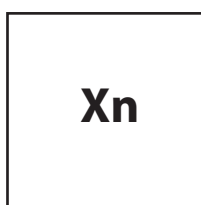
**Air transport**

ICAO/IATA:

Class : 3  
 UN/ID No. : 1263  
 Proper technical name : PAINT  
 Packing group : III  
 Release of danger

**Regulatory Information**

EU Classification : Harmful, flammable  
 Symbol : Xn

**Harmful**

Risk-phrases : R10 Flammable.  
 R20/21 Harmful by inhalation and in contact with skin.  
 R38 Irritating to skin  
 R66 Repeated exposure may cause skin dryness @  
 cracking  
 R67 Vapours may cause drowsiness and dizziness  
 Safety-phrases : S25 Avoid contact with eyes.

**Other Information**

Our technical advice – whether verbal, in writing or by way of trials – is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.

**Company Identification**

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