

MATERIAL SAFETY DATA SHEET

SPARKO 33X-0182-0 PU TOPCOAT

Section 1. Chemical Identification

Product Name : **SPARKO 33X-0182-0 PU TOPCOAT**
Product Code : 33X-0182-0
(x denotes gloss level)
Dangerous Goods Class : 3
Packaging Type : In Kilograms (Kg)
Use : For wood and metal coating

Section 2. Components

Chemical Identity	Content	CAS Number
Alkyd Resin	45%	-
Toluene	8%	108 - 88 - 3
Xylene	26%	1330 - 20 - 7
n-BAC	10%	123 - 86 - 4
CAC	5%	111 - 15 - 9
Methyl Iso-Butyl Ketone	6%	108 - 10 - 1

Section 3. Hazards Identification

Swallowing : Harmful if swallowed

Skin Absorption : May cause irritation to skin. May cause sensitization by skin contact.

Inhalation : Trace component and residual monomer vapors may be irritating to the eyes, mucous membrane, respiratory tract, and may produce symptoms of headache and/or nausea in poorly ventilated areas.

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Eye Contact : Direct contact may cause eye irritation.

Section 4. First-Aid Measures

Eye Contact : Thorough flushing with water for at least 15 minutes. Get immediate medical assistance.

Skin Contact : Wash areas of contact repeatedly with soap and water. Seek immediate medical assistance if irritation persists.

Ingestion : NEVER INDUCE VOMITING. Seek immediate medical assistance.

Inhalation : Prevent further exposure. Seek immediate medical assistance if dizziness, nausea or unconsciousness is experienced.

Section 5. Fire-Fighting Measures

Fire Extinguishing : CO₂, foam, Dry powder. In case of larger fires, water spray should be used.

In case of fire, formation of carbon monoxide, nitrogen oxide and traces of hydrogen cyanide is possible.

Special fire fighting equipment : Self-contained breathing apparatus should be used by Fire fighters. Do not let contaminated extinguishing water into the soil, groundwater or surface waters.

Section 6. Accidental Release Measure

Small spills can be washed off with large amounts of water; spills of a larger scale must be PROPERLY DISPOSED. The product may be toxic to aquatic lives; **DO NOT** dispose in natural bodies of water. Proper protective equipment should be worn. Do not empty into drains.

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Put on protective equipment. Remove sources of fire, ensure adequate ventilation/ exhaust ventilation. Keep unauthorized persons away.

Remove mechanically, cover remainders with wet, absorbent material (e.g. Sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container. Keep damp in a safe ventilated area for several days.

Section 7. Handling and Storage

- Handling** :
- Ensure adequate ventilation or exhaust ventilation in the working area. Exhaust ventilation necessary if product is sprayed. Avoid contact with skin and eyes.
 - Provide adequate ventilation and if necessary, air extraction in working area. Explosion protection required.
- Storage** :
- Keep container dry and tightly closed in cool and well ventilated place.
 - Keep away from flame.

Section 8. Exposure Controls

N-Butyl Acetate 150 ppm to 200 ppm
CAS No : 123-86-4 (8 hours average value)
maximum limit of excess factor 4

Methyl iso-Butyl Ketone 50 ppm to 75 ppm
CAS No : 108-10-1 (8 hours average value)
maximum limit of excess factor

Toluene 100 ppm to 125 ppm
CAS No : 108-88-3 (8 hours average value)
maximum limit of excess factor

Xylene 100 ppm to 125 ppm
CAS No : 1330-20-7 (8 hours average value)
maximum limit of excess factor

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Personal Protection

Respiratory protection : Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommend.

Hand protection : Conditionally suitable materials for protective gloves. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

Eyes protection : Wear eye/ face protection.

Body protection : Wear suitable protection clothing.

Protection and hygienic measures

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work. Keep working clothes separate. Take off immediately all contaminated clothing.

Section 9. Physical and Chemical Properties

Appearance	:	clear	
Color	:	yellowish	
Form	:	thick liquid	
Odor	:	smell of solvent	
Boiling point	:	120	(248)
Flash point	:	28	(82.4) (close cup)
Specific Gravity	:	0.95 – 1.06	
Explosive limits	:	1% (lower)	
		10.8% (upper)	
Solubility in Water	:	insoluble	

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Section 10. Stability and Reactivity

Hazardous

Decomposition

Product

: No hazardous decomposition when stored and handled correctly

Hazardous Reaction

: exothermic reaction with amines and alcohols; reacts slowly with water forming CO₂, in closed containers risk of bursting owing to increase of pressure.

Section 11. Toxicological information

Acute toxicity

LD₅₀ oral, rat

: more than 5000 mg/ kg Skin and mucous membrane compatibility,
rabbit

Eyes

: very slight irritant

Section 12. Ecological information

Acute fish toxicity

LC₅₀

: 6350 ppm/4H

LD₅₀

: 5251 mg/Kg

Section 13. Disposal Consideration

Do not allow to escape into waters, wastewater or soil.

The waste can be disposed of in a suitable incinerator under compliance with the relevant legislation.

After final product withdrawal, all residues must be removed from containers (drip-free, powder-free or paste -free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. Containers must be recycled in compliance with national legislation and environmental regulations.

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Incineration in compliance with local regulations.

Section 14. Transport Information

IMDG : 3
IATA/ ICAO : 3
DOT 49 CFR : 3

Section 15. Regulatory Information

Alkyd resin type paint

Section 16. Others

The data and information contained in this Material Safety Data Sheet is provided to the best of our knowledge and ability on existing hazards, properties and handling of this product as recommended. It is recommended that the user tests the product according to its purpose. The user is responsible for the proper, safe and lawful use of this product. The information contained in this MSDS is subject to change without further notice. ©20

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PRODUCT SPECIFICATION SHEET

SPARKO 33X-0182-0 Polyurethane Topcoats

CHEMICAL IDENTIFICATION

Product Description : **SPARKO 33X-0182-0 Polyurethane Topcoat**
Product Code : 33X-0182-0 (X denotes gloss level)
Available from 0 – 90 Sheen

PRODUCT FEATURES

It is a two-component clear Polyurethane topcoat with good alcohol and water resistance properties. It has excellent scratch, moisture and heat resistance. It comes in different gloss levels.

SUITABLE WOOD-BASED SUBSTRATES

Floorings, Staircase, Bedroom Furniture, Billiard Tables, Bookshelves, Interior Doors, Dining and Kitchen Chairs, Dining Tables, Wall Units, Interior Wall Panels. Can also be applied to MDF, Bamboo and Metal.

CHARACTERISTICS

Gloss Level : 0 – 90 Sheen
Colour Availability : Clear and Pigmented
Scratch & Mar Resistance : High
Water & Alcohol Resistance : High
Sag Resistance : 127 μ m

TECHNICAL SPECIFICATIONS

Solid Content (by weight) : 52% $\pm$ 1%
Density (@ 25°C) : 1.04 Kg/L
Mixing Ratio : 2 : 1 (310-0182-0 Hardener) : 2 (604 Thinner)
Pot Life : 4 Hours

Maximum Wet Film Thickness : 127 μ m
Theoretical Spreading Rate : 4 – 5 m²/L

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*Approximate Drying Time: (@ 28⁰C, 74% humidity)

Dust Free = 45 – 60 min; Print Free = 45 – 60 min; Stacking = 24 hr

**The drying time varies depending on film thickness, thinning and the environment.*

Shelf Life @ 30 ⁰ C	:	12 months
Packaging Sizes	:	1 Kg, 4 Kg, 18 Kg

HEALTH AND SAFETY

Proper personal protective equipment must be worn while using this product. This product should also be used in a well-ventilated spray booth. Avoid breathing in or smelling this product at all times. Please refer to our Material Safety Data Sheets (MSDS) for more health and safety details.

The information contained in this product specification sheet has been provided based on our laboratory results. The type, quality and characteristics of substrates used, the environment of the end-user, individual systems or processes employed by the end-user and other conditions are elements which are beyond our control and we therefore recommend that the end-user test the product for the specific application, substrate required under the en-users environment and other working conditions. Sparko will not be held liable for damages to the improper use of our products. All information stated above are subject to change without prior notice. ©20

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