

BAR-RUST® 231

MULTI-PURPOSE EPOXY MASTIC

D231 (HIGH PERFORMANCE-SOLVENTBORNE)

PRODUCT INFORMATION

PRODUCT NAME	BAR-RUST® 231 MULTI-PURPOSE EPOXY MASTIC
PRODUCT CODE	Base: D231-B3501 Converter: D231-C0910
DESCRIPTION	A high performance, multi-purpose, surface tolerant, two-component chemically-cured epoxy semi-gloss coating for industrial applications.
USAGE	For use on properly prepared steel or masonry surfaces. Also used on concrete floors and interior primed drywall, plaster and wood surfaces. Use as a filler for open textured concrete block. Ideal for structural steel, piping, tanks, and equipment in chemical fertilizer, power plants, petroleum refineries, pulp and paper mills, water and sewage treatment plants and mining operations.
Special Qualifications	Performance alternate for Federal Specifications TT-C-550, TT-C-535B, MIL-C-22750F, and MIL-P-23377F Type 1. Suitable for use on structural surfaces or surfaces where there is a possibility of incidental food contact in commercial food preparation establishments, food processing plants and federally inspected meat and poultry plants.
BENEFITS	<ul style="list-style-type: none">• Excellent corrosion protection.• Suitable for salt and fresh water immersion.• Excellent solvent and chemical resistance – resists splash and spillage of solvents, alkalis, salts, moisture, oils, greases, foodstuffs and detergents.• Cold weather cure - Use cold weather additive for application down to -4°C.• Surface tolerant – abrasive blasting not required in many applications.• Excellent adhesion to tight rust.• Low VOC.• Self-priming on steel or masonry.• Abrasion resistant.• High build/high solids coating.• Superior recoatability.
LIMITATION OF USE	Exterior exposure will cause a color change, early dulling, and loss of gloss, but this does not affect protective properties. Epoxy coatings may yellow during application and cure if exposed to the combustion by-products of improperly vented fossil fuel burning heaters. Commonly finished with Devco Coatings DEVTHANE™ 389 Urethane Enamel for maximum exterior colour and gloss retention.
PACK SIZE	5 litres units comprising Base: 4 litres and Converter: 1 litre.
COLOUR RANGE	Off White.
PERFORMANCE GUIDE	
FILM PROPERTIES	
Adhesion	Excellent
Salt Spray Resistance	Excellent
Direct Impact Resistance	Very Good
Abrasion Resistance	Excellent
Humidity Resistanc	Excellent

PRODUCT DATA	
Composition	Pigment: Lightfast Non-Lead Pigments and Mineral Extenders. Binder : Polyamide Cured Epoxy. Solvent : Aromatic Hydrocarbon and Alcohol.
Weight/Litre	1.3 kg/L – varies with colour
VOC (EPA 24)	247 g/L
Volume Solids	71%
Theoretical Coverage	28.1 m ² /L at 25 um dry.
Package Coverage	Apply at 3-5 – 7 m ² /L depending on surface texture and porosity. When applying by spray, looses due to overspray can be heavy on narrow sections.
Service Temperature Limits	121°C.
Shelf Life	Over 24 months at 25°C – unopened.
Hardness (ASTM D 3363)	3H under 7 days cure @ 25°C.
Mix Ratio By Volume	4 (Base) : 1 (Converter)
Induction Time	15 minutes.
Pot Life	Up to 5 hours at 25°C.
Flash Point	27°C.

APPLICATION

THINNING	Thinning is not normally required. However, if necessary add up to 1 part of T-10 Thinner to 7 parts of paint (15%). For application over aged alkyds use T-5 Thinner or Xylene.
SPRAY RECOMMENDATIONS Conventional Spray Airless Spray	Satisfactory through most equipment. A typical set up for airless spray application is a minimum working pressure on paint of 3000psi (207 bars) with a spray tip size 0.019" to 0.025".
CURING TIMES Recoat 25°C Hard Dry	Single coat at standard thickness: 5 hours. 9 hours.
CLEANING UP	Use T-10 Thinner.
FILM THICKNESS	Wet: 140 – 282 microns. Dry : 100 – 200 microns.

PRE - APPLICATION

SURFACE PREPARATION	Surfaces must be dry, clean, free of oil, grease, form release agents, curing compounds, laitance, other foreign matter and be structurally sound. Remove all loose paint, mill scale, and rust. All direct to metal coatings provide maximum performance over blasted surfaces. There are situations and cost limitations which preclude blasting. BAR-RUST ^R 231 was designed to provide excellent protection over less than ideal surface preparation. The minimum standard for non-immersion service is SSPC-Sp2 (SS1-St2); for immersion service, the minimum standard is SSPC-SP10 (SS1-Sa2_). Where very rusty surfaces still remain after cleaning for non-immersion service, use PRE-PRIME TM 167. Sealer before application of BAR-RUST ^R 231 Coating.
SYSTEM INFORMATION NEW SURFACES Steel Concrete Block Concrete Floors, Poured Concrete	Clean and prime with this product. Remove loose aggregate and repair voids, Fill with this product. Cure at least 30 days. Acid etch or abrasive blast slick, glazed concrete or concrete with laitance. Prime with PRE-PRIME TM 167 or this coating

Drywall Interior Wood Exterior Wood Galvanized Steel	thinned with T-10 thinner in a 4 to 1 ratio. Prime with a premium acrylic latex vapour barrier primer. Prime with this product thinned 10%. Not recommended over this surface. Remove dirt and oils by solvent cleaning or with Devoe Coatings DEVPREP [®] 88 Cleaner followed by a thorough water rinsing.
PREVIOUSLY PAINTED SURFACES	Old coatings should be tested for lifting. If lifting occurs, remove them. Otherwise scuff sand glossy areas and aged epoxy coatings. Clean aged epoxy or urethane coatings with Devoe DEVPREP [®] 88 Cleaner. Remove cracked and peeling paint. Prime bare areas with primer specified under New Surfaces. If thinning is required, thin with T-5 Thinner or xylene only when used over aged alkyd coatings.

PRECAUTION

SAFETY, HEALTHY AND ENVIRONMENTAL INFORMATION	<p><u>D231-BASE</u> IRRITANT FLAMMABLE Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause sensitisation by skin contact. Avoid contact with skin/eyes. If swallowed seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (Only if the person is conscious). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. To remove splashes of paint from skin, use soap and water or a recognised cleanser. Contains Epoxy constituents. See information provided by the manufacturer. Keep away from food, drinks, animal feed and out of the reach of children. Keep away from combustible material. Container must be stored in a cool, shaded place and tightly closed in a secure, upright position. Take precautionary measures against static discharges. Work in a well-ventilated area and do not breathe in vapour or spray. When applying paint, wear suitable protective clothing, gloves and eye/face protection. In case of fire use foam, dry powder, AFFF, CO₂ – Never use water. In case of a spillage, contain and collect spillage using sand or earth and do not empty into watercourses, drains or the environment. Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations. Refer to Product Safety Data Sheet for further details. In case of emergency, refer to Emergency Incident Response Hotline 1800 80 6187.</p> <p><u>D231-CONVERTER</u> HARMFUL FLAMMABLE Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact. Avoid contact with skin/eyes. Risk of serious damage to eyes.</p>
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	<p>If swallowed seek medical advice immediately and show this container or label.</p> <p>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>To remove splashes of paint from skin, use soap and water or a recognised cleanser.</p> <p>Keep away from food, drinks, animal feed and out of the reach of children.</p> <p>Keep away from combustible material.</p> <p>Container must be stored in a cool, shaded place and tightly closed in a secure, upright position.</p> <p>Take precautionary measures against static discharges.</p> <p>Work in a well-ventilated area and do not breathe in vapour or spray.</p> <p>When applying paint, wear suitable protective clothing, gloves and eye/face protection.</p> <p>In case of fire use foam, dry powder, AFFF, CO2 – Never use water.</p> <p>In case of a spillage, contain and collect spillage using sand or earth and do not empty into watercourses, drains or the environment.</p> <p>Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations.</p> <p>Refer to Product Safety Data Sheet for further details.</p> <p>In case of emergency, refer to Emergency Incident Response Hotline 1800 80 6187.</p>
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