

Technical Data Sheet

Virtuo Epoxy MIO Finish

Epoxy Micaceous Iron Oxide

Product Description

Virtuo Epoxy MIO is a two component, high solid, high build Intermediate coating, pigmented with Micaceous Iron Oxide. It has excellent barrier protection, fast curing and long overcoating properties.

Recommended Use

It is recommended for use on underground steel storage tanks, underground steel piping, in sewage and waste water treatment plants, petroleum refineries, chemical plants, pulp and paper mills, fertilizer plants, power plants, and underground coal & salt mines. Excellent for fresh and salt water immersion on steel and concrete structures on bridges, pilings, basins, and pits.

Physical Data

Color	: Reddish Brown
Finish	: matt to Eggshell
Solid by Volume	: 70 ± 2%
Supply Weight (Kg/ Ltr)	: 1.6±0.05
Flash Point	: 29° C
Dry Heat Resistance	: Intermittent: 120°C, Continuous: 100°C
Shelf Life	: 12 months

Film Thickness

Recommended film thickness per coat

Dry Film Thickness	: 75μ to 180μ in single coat
Wet Film Thickness	: 125-270μ in single coat
Theoretical Coverage Rate	: 7 sq.mt / lit at recommended DFT of 100μ

Surface Preparation

All surfaces to be coated should be clean, absolutely dry and oil or moisture free before painting application. Oil and grease should be removed by solvent cleaning.

Repair Cases: Corroded areas should be power tool cleaned to St3 or blast cleaned to Sa2 or better. Existing system should be dry and free from loose paint, salt, grease and other contaminants prior to over coating.

New steel: Abrasive blasting to Sa 2½ (ISO 8501-1:2007). For temporary protection, if required, use a suitable shop primer. All damage of shop primer and contamination from storage and fabrication should be thoroughly cleaned prior to final painting.

Maintenance: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to St 3 (ISO 8501-1:2007) (minor areas) or by abrasive blasting to min. Sa 2, preferably to Sa 2½ (ISO 8501-1:2007). Improved surface preparation will improve the performance of the product.

Stainless steel: To be abrasive blast cleaned to a uniform, sharp, dense profile (ISO Comparator Medium (G), corresponding to Rz minimum 50 micron. Any salts, grease, oil, etc. to be removed before abrasive blasting is commenced.

Application Data

Application Method	Spray/ Airless Spray/Brush/ Roller
Mixing Ratio	4 Part (Base) : 1 Part (Hardener)
Pot Life	Four Hours at 30°C
Thinner and Cleaner	Virtuo Universal Thinner
Airless Nozzle Orifice	0.45 - 0.58mm
Nozzle Pressure	176 kg/cm ² or 2500 psi

Working Precautions: Material should not be allowed to remain in pipeline, hoses, gun or spray equipment. Thoroughly flush all equipment with Universal Thinner. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages, the work should recommence with freshly mixed units.

Maintenance: Clean all equipment immediately after use with Universal Thinner. It is good working practice to periodically flush out spray equipment during the course of the working day. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

Drying Characteristics

Surface Dry	: 30-40 Mins
Touch Dry (to Handle)	: 1.5 Hours
Hard Dry	: 24 Hours
Over coating Interval	: Minimum 2 Hours

Drying and curing times are determined at 30°C under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Compatibility

Previous Coating	: Epoxy Primers
Subsequent Coating	: Epoxy, Polyurethanes, Modified Alkyd

Storage

This is solvent based coating and the containers should be kept in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed.

Caution

This product is for professional use only. The paint applicators should be trained experienced and have the capability and equipment to mix and apply the coatings correctly as instructed. Applicators should use appropriate protection equipment when using this product.

This is solvent based product and should be use under well ventilated conditions. Do not inhale spray mist. Skin contact should be avoided. In case of spillage on the skin, it should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water.