

Technical Data Sheet

Indopoxy 690UHS

Surface Tolerant High Solid High Build Epoxy Aluminum Mastic

Product Description

Two component Surface Tolerant (Polyamine cured) coating pigmented with aluminium to provide better barrier protection. It's a high solids, abrasion resistant coating, which can be applied directly to mechanically prepared shop primer or suitably prepared bare steel.

Recommended Use

690UHS mastic is recommended as primer, intermediate coat or as topcoat provides long lasting protection in environments with high corrosivity. It can be used as single coat system in atmospheric and immersed environments. Recommended for Steel Structures, Mining Equipments, Pipelines, Storage Tanks etc including hand prepared rusty steel, hydroblasted steel, and a wide range of intact, aged coatings in Infrastructure projects, Bridges, Refineries Pipelines, Chemical Plants, Steel Plants, Cement Plants, Petrochemicals Plants etc.

Physical Data

Colour	: Aluminium
Finish	: Semi Glossy
Soild by Volume	: 84 ± 2%
Supply Weight (Kg/ Ltr)	: 1.40±0.05
Flash Point	: 33° C
Dry Heat Resistance	: Intermittent : 120°C, Continuous: 120°C
Shelf Life	: 12 months

Film Thickness

Recommended film thickness per coat

Dry Film Thickness	: 150-250μ in single coat
Wet Film Thickness	: 175-300μ in single coat
Therotical Coverage Rate	: 5.5 sq.mt / lit at recommended DFT of 150μ

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 overcoating.

New steel: Abrasive blasting to Sa 2½ (ISO 8501-1:2007). 690UHS is designed to apply directly over properly solvent cleaned steel as well. However all damage of shopprimer 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.

Aged Surface: Indopoxy 690UHS is suitable for overcoating a limited range of intact, tightly adherent aged coatings. Loose or flaking coatings should be removed back to a firm edge. Glossy finishes require light abrasion by emery paper or power tool to provide a physical key.

Application Data

Application Method	: Airless Spray, Brush/ Roller (Only Touch up)
Mixing Ratio	: 3 Part (Base) : 1 Part (Hardener)
Pot Life	: One Hours at 30°C
Thinner and Cleaner	: Indopoxy Epoxy Thinner (IK.1501)
Airless Nozzle Orifice	: 0.53 - 0.78mm
Nozzle Pressure	: 211 kg/cm ² or 3000 psi

Working Precautions: Material should not be allowed to remain in pipeline, hoses, gun or spray equipment. Thoroughly flush all equipment with IK.1702 thinner. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages, the work should recommences with freshly mixed units.

Maintenance: Clean all equipment immediately after use with IK.1702 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	: 60 mins
Touch Dry (to Handle)	: 3 Hours
Hard Dry	: 16 Hours
Overcoating Interval	: Minimum 6 Hours & Maximum 15 Days

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, Inorganic Zinc Silicates
Subsequent Coating	: Epoxy, Polyurethanes, Alkyds, Modified Alkyds, Acrylics

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.

Limitation of Liability

This information is given to the best of our knowledge. Because of the multitude of formulations, production, and application conditions, all the above-mentioned statements have to be adjusted to the circumstances of the processor. Our products are often used under conditions beyond INDOKOTE's control. INDOKOTE cannot guarantee anything but the quality of the product itself. No liabilities can be derived from this fact for individual cases. This issue replaces all previous versions – Printed in India.

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