

Technical Data Sheet

Virtuo® P.U Finish

Polyurethane High Performance Finish

Product Description

Two-component Air Drying Acrylic Aliphatic, Non Yellowing polyurethane finish coating.

Recommended Use

It is recommended as an Ideal topcoat for a OEM industries as it exhibits excellent weathering resistance and Colour retention. It is flexible to withstand temperature variations with excellent humidity resistance. It is recommended as topcoat with suitable primers and undercoats for use in High Chemical & Saline atmosphere for better aesthetics and corrosion resistance in Chemical Plants, Offshore structures industries, Power Plants, Petrochemicals & Pharmaceutical Complexes, Cement & Steel Plants, Smelters, Transportation Industries, Infrastructure Projects etc.

Physical Data

Color	: Any IS/ RAL/ Custom Shades
Finish	: Glossy
Solid by Volume	: 57 ± 2%
Supply Weight (Kg/ Ltr)	: 1.15±0.05
Flash Point	: 31° C
Dry Heat Resistance	: Intermittent: 100°C, Continuous: 80°C
Shelf Life	: 12 months

Film Thickness

Recommended film thickness per coat

Dry Film Thickness	: 50-75μ in single coat
Wet Film Thickness	: 80-120μ in single coat
Theoretical Coverage Rate	: 12.50 sq.mt / lit at recommended DFT of 40μ

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.

Primed Surface: Virtuo 2K P.U should be always be applied over anti corrosive primed surface. For final smooth finish, proper sanding of already coated primer is recommended. Existing system should be dry and freefrom loose paint, salt, grease and other contaminants prior to over coating.

Maintenance: Area of damage or rework etc should be prepared as per specified standards, either by power tool cleaning or other means. A patch primer should be applied before application of Virtuo 2K P.U for desired performance of the product.

Surface Preparation

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® P.U Thinner
Airless Nozzle Orifice	1.2 -1.4 mm
Nozzle Pressure	40-70 p.s.i

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 beresealed 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 emptycontainers should be disposed of in accordance with appropriate regional regulations/legislation.

Drying Characteristics

Surface Dry	: 120 mins
Touch Dry (to Handle)	: 4 Hours
Hard Dry	: 24 Hours
Overcoating 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 Primer, Epoxy MIO, Virtuothane Primer, Fast Set Primer

Subsequent Coating: P.U Finish



Product Features

The gloss level and surface finish are dependent on paint application method. Whenever possible application should be done with one method only. The best results in terms of gloss and appearance will always be obtained by air spray application.

When over coating after aging, coating should be fully cleaned to remove all surface contamination such as oil, grease, salts, traffic fumes etc.

This product must only be thinned using the recommended thinner. The use of alternative thinners, might contains alcohols, can severely affect the curing mechanism of the coating. Virtuo 2K P.U should be applied at least 3°C temperatures above dew point. During winters or at low temperature areas, condensation occurring during or immediately after application may result in a matt finish and an inferior film.

When applying Virtuo 2K P.U by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness. The ability to apply Virtuo 2K P.U in one coat will be affected by the temperature of the substrate. At higher steel temperatures, lower film builds and thinner coats are likely to be achieved.

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.

Precaution

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.