



TECHNICAL DATA SHEET

COSMO-POLYURETHANE

ALIPHATIC POLYURETHANE-BASED COATING

DESCRIPTION: COSMO-POLIURETHANE is a two-component glossy acrylic aliphatic polyurethane finish. It is a product with a high solids content, with a long useful life, provides durable finishes and has good gloss retention. This product provides good resistance to abrasion and chemicals.

APPLICATIONS: COSMO-POLIURETHANE is applied over a suitable anticorrosive or primer. It is used on metal structures and concrete exposed to industrial environments, as well as on bridges, chemical plants as well as on marine vessels to give a durable finish with good gloss retention. Provides good resistance to abrasion and chemicals.

TECHNICAL SPECIFICATIONS:

ITEM	SPECIFICATION	CHARACTERISTIC
1	SOLIDS IN VOLUME	65% ± 2
2	COLORS	WHITE
3	FINISH	BRIGHT
4	TYPICAL THICKNESS	2.0 – 3.0 Mils DRY (4.0 – 6.0 Mils WET)
5	THEORETICAL PERFORMANCE	525.3 sq ft (48.8 m ²) / gal at 2 Mils DRY (WITHOUT CONSIDERING LOSSES DUE TO APPLICATION AND TRANSFER OF THE PRODUCT)
6	APPLICATION METHODS	AIRLESS EQUIPMENT, AIR PRESSURE EQUIPMENT
7	VOLATILE CONTENT (VOC)	268 g/L
8	STORAGE	1 YEAR IN A FRESH ENVIRONMENT, PART A 6 MONTHS IN A COOL ENVIRONMENT, PART B

DRYING TIMES:

Temperature	Fingerprint free	Handling	Final Curing	Interval between coats*
				Min - Max
54 °F / 12 °C	12 hrs	36 hours	4 days	12 hrs – 36 hrs
77 °F / 25 °C	6 hrs	14 hrs	3 days	9 hrs – 24 hrs
100 °F / 32 °C	4 hrs	12 hrs	2 days	6 hrs – 16 hrs

*Repainting times depend on temperature, relative humidity and applied thickness.

SURFACE PREPARATION:

- The surface must be clean, free of dust, oil, grease and all contaminants and must have been primed with a primer compatible with the product.
- Before applying COSMO-POLIURETHANE, verify that the repainting time of the base coat is correct.
- If the repainting time has been exceeded, the surface must be sanded until the roughness is achieved to ensure adhesion of the product.

APPLICATION:

- **MIXING RATIO** – 4:1 By volume
- **SHELF LIFE OF THE MIXTURE AT 77 °F / 25 °C** – 2 hours once the paint is prepared, use it completely. After the useful life, the paint should not be applied. Open containers should not be stored.
- **RECOMMENDED APPLICATION METHODS**
 - **BRUSH/ROLLER** – (i) Only for small surfaces and/or touch-ups.
 - **CONVENTIONAL EQUIPMENT**– (i) DeVilbiss JGA 502/3 or DeVilbiss MBC 704/765 pistol or its equivalent. (ii) Dilute 10% - 25% by volume.
 - **AIRLESS PISTOL** – (i) Nozzle range between 0.015” to 0.019”. (ii) Fluid pressure 2000 - 2500 psi. (iii) Dilute a maximum of 10% by volume.
 - **CLEANING** - (i) Clean equipment as soon as paint has been applied. (ii) It is likely that during long periods of application, cleaning will have to be done several times.

SYSTEMS COMPATIBILITY:

(i) COSMO-POLYURETHANE can be used as a finish on properly primed surfaces. (ii) For specific cases, consult our Technical Service. (iii) The paint should be applied at a relative humidity of no more than 85% since the gloss could be affected. Likewise, condensation must be avoided on the surface recently applied with COSMO-POLYURETHANE.

INFORMATION ON INDUSTRY STANDARDS:

Additional information about industry standards, terms and abbreviations used in this data sheet can be obtained from the following institutions:

1. The Association for Materials Protection and Performance (AMPP) was created when NACE International and SSPC merged in 2021).
2. Occupational Safety and Health Administration (OSHA, created in 1970).

SAFETY PRECAUTIONS:

(i) COSMO-POLYURETHANE should be used by professional applicators in industrial or marine situations, in accordance with the recommendations provided on this sheet and its container. The product should not be used without reference to its technical data sheet. (ii) All work involving the application and use of this product must be carried out in accordance with applicable Health, Safety and Environmental standards and regulations. (iii) Applicators must take the necessary precautions to prevent COSMO-POLYURETHANE from coming into contact with their skin, eyes, or other parts of the body. (iv) If metal coated with this product is flame welded or cut, dust and vapors will be emitted which will require the use of appropriate personal protective equipment and adequate ventilation. (v) For any questions regarding the use of COSMO-POLYURETHANE, consult our Technical Service.

ADDITIONAL INFORMATION:

The data in this Technical Data Sheet represent typical values of the product characteristics. It is the user's responsibility to take appropriate measures in order to comply with the requirements established within their industry under current legislation. The information represents a general guide and should not be considered as a guarantee of its properties.



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COSMOS® COATING SYSTEMS // InfoPeru@CosmosCoatings.com