



SilOxi - 110

Silane/Siloxane Hybrid Coating

Silane/Siloxane coating with high wear and chemical resistance for oxidizing substrates such as carbon and stainless steel, aluminum, fiberglass and epoxy coated surfaces. Hydro- and oleophobic properties

TECHNICAL DATASHEET so110/1701

- Designed to provide environmental protection against wear, corrosive, chemical and UV exposure
- Easy to clean– No Organic growth ASTM G21
- Impairs absorption/adsorption of corrosive matter
- Provides a strong, high gloss, glass-like surface with no risk of delamination – Chemically bonded
- SilOxi represents the most significant advance in ambient cured ceramic hybrid coatings
- Long term protection **utilizing environmentally neutral chemistry**
- Organic-inorganic hybrid coating solution, formulated for Easy application

Product Description

SilOxi-110 is designed as a high gloss coating protective coating. It provides a slightly thicker surface-shield than SilOxi-110. It is highly recommended as a protective coating for oxidizing substrates such as carbon steel / stainless steel / aluminum and oxidizing organic coatings, providing a strong shield with hydrophobic and oleophobic properties. Typical applications for SilOxi 110 would include pipes, pumps, valves and utility room surfaces and other equipment in all environments including high humidity, salt-water and chemical exposure. SilOxi-110 impairs / repels the adhesion of corrosive matter, oils, scum and microorganisms, resulting in reduced corrosion and wear.

- UV-resistant
- High Chemical resistance
- High thermal resistance
- Corrosion Protection based on ASTM B117 Salt Fog Testing @ +6,000 hours
- No Organic growth ASTM G21

These properties also make surfaces easier to maintain. No abrasive or toxic cleaners will be necessary to clean or maintain the aesthetic or operational need of the surface. This system was designed utilizing Silane/Siloxane chemistry with a highly crosslinked network that will strengthen the surface making it very scratch resistant with low friction while enhancing “grip ability” (not a slippery surface).

All this is accomplished with the environment and environmental pressures in mind. SilOxi 110 is environmental neutrally formulated - no heavy metals, toxins nor harsh solvent are used in the manufacturing of SilOxi 110 resulting in negligible VOC emissions for our applicators.

Product Information

Color	Clear, yellow hue
Finish/Sheen	Clear, High gloss
Components	2
Volume Solids	98%
VOC	3-6 g/L
Flash Point	77.9 °F / 25.5°C (Pensky-Martens Closed Cup)
Unit Size	280 gr 25kg jugs and 55 gal drums

Application / Drying / Overcoat Information

Method of Application	Wipe, dip, brush, roller or airless spray
Number of coats	1
Dry Film Thickness	Subject to substrate absorption; typical 0.4-0.8 mils
Application Temp	50-95°F (avoid direct sunlight)
Theoretical coverage	10 fl. oz. per 300 SQFT
Dry Time	To touch: 30 minutes Hard: 5 hours Fully reacted: 48 hours
Thinner	DO NOT THIN
Cleaning	Ethyl, methyl alcohol, isopropanol or denatured alcohol



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Surface Preparation

On new surfaces (untreated), the surface should be thoroughly cleaned prior to treatment to remove all contaminants and oily substances. Finishing off with a wipe down using ethyl (denatured) / methyl alcohol or isopropanol is often recommended. Sand blasting or chemical treatment (etching) is not required for SilOxi to bond well to the substrate but is sometimes necessary for proper cleanliness or esthetics. Make sure the surface to be treated is completely dry. Do not allow water to come in contact with SilOxi 110 before it is dry/hard to handle (approximately 1 to 2 hours). Coating performance is always proportional to the degree of surface preparation. Avoid shortcuts. Inadequate performance will follow inadequate surface preparation.

Application / Systems and Use

Recommended temperature to apply SilOxi 110 is 70-85°F (20-30°C). For best results, use IMADA recommended application tools.

Plan your application well. Do all masking and prep-work prior to mixing. If smaller pre-measured kits are used, mix SilOxi-110 Base and SilOxi Act-100 by pouring the Act-100 into Base container (both are pre-measured so both contents will be contained in Base container). Seal cap and gently mix/shake for one full minute and allow it to rest for one minute, shake again a few times and the solution is ready to use. If using larger sized packaging that are not pre-measured components, mixing ratio is 100:15 (Base: Act-100)

SilOxi-110 may be applied by wiping, brush, roller or airless spray. A thin and even wet film should be left on the surface to be adsorbed into the surface of the substrate – on vertical surfaces; the substrate will hold just the amount it can take. On small surfaces, around trimmings and hard to reach areas, a lint free microfiber towel is the preferred method of application. **HINT: Dip the cloth so that it is soaked but not dripping.** Wipe the surface with soft pressure in an even and systematic pattern leaving a thin, even wet film on the surface – just enough so it does not run off. **NOTE: Overlap application wet-on-wet.**

On larger surfaces, a soft, alcohol resistant applicator pad with handle may be used for smooth applications. Dip the applicator pad into the ready solution (using a alcohol resistant paint tray – plastic - as a container). **HINT: Hold it vertically over the tray so some of the excess fluid runs off.** Swipe the pad with soft pressure in an even and systematic pattern leaving a thin, even wet film on the surface – just enough so it does not run off. Apply in sections from the top to down. **NOTE: Overlap application wet-on-wet.**

Brush application: use a high quality natural bristle brush. **Roll application:** use a high quality, low nap, and solvent resistant roller. Apply uniform and sufficient. A slow, well loaded roll helps to avoid the creation of air-bubbles. **Spray application:** airless spray with 0.015-0.017 tip is recommended. Air spray with moisture and oil trap and a 0.070" fluid orifice.

CAUTION: Do not apply SilOxi-110 in direct sunlight. Direct sunlight or high temperatures should be avoided until the surface is dry to touch; otherwise SilOxi could react too quickly, which will impair its performance. Do not apply SilOxi-110 in rain, heavy fog or in dew, as this will also adversely affect the performance of the product. When not in use, keep the container with SilOxi sealed tight so not to expose it to air and moisture.

Transportation, Storage and Safety Information

Packaging and storage

- Keep containers tightly closed in a cool, dark and well-ventilated place.
- Keep tightly sealed in original packaging.
- Flammable liquids – handle with care.

Safety and handling

Before using, please read the Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use.

Limited warranty information – Please read carefully

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