S-Glide 9010

Clear Polysiloxane Hybrid Coating

Utilizing high crosslinking chemistry resulting in very low surface energy providing excellent release qualities

- Polysiloxane/Epoxy system providing high resistance against physical and chemical attack
- High temperature and UV resistance while providing a strong cavitation and erosion barrier
- Remains flexible at very low temperatures
- Excellent bonding to bare steel and aluminum
- High crosslinking with low surface energy providing excellent release properties
- Long term protection ***utilizing environmentally neutral chemistry***
- High solids, low viscosity system eliminates the need to use solvents for dilution

Product Description

S-Glide was designed as a high solid and low VOC system with superior environmentally friendly properties. This bisphenol and isocyanate-free system is formulated with VOC contents lower than 120 g/L. It can be used as an anticorrosion coating for various steel structures in both industrial and marine environments. In several maintenance demanding applications, S-Glide has proven to provide lower maintenance / easy cleaning on applied surfaces. The high crosslinking associated with S-Glide exhibits strong anti-corrosive and chemical resistant properties. In addition, the hydrophobic properties provide foul releasing and anti-icing functions.

S-Glide has been designed to have great resistance to cavitation and erosion in pumps, propellers and running gear. The destructive effect of cavitation can be compared to an implosion in which water, streaming at high speed on the surface, causes sudden high-pressure loads. If a coating cannot withstand this high pressure, material loss (erosion) occurs (appearing as chalking or loss of gloss). The flexural properties of this system have been designed to handle these forces even in very low temperatures.

S-Glide has outperformed traditional two-coat polyurethane/epoxy systems in chemical, weather, erosion and salt spray resistance testing. The epoxy-siloxane hybrid structures of the S-Glide system are less susceptible to degradation from chemical exposure or UV oxidation because of the strength of the Si-O bond in S-Glide versus the C-C bond found in traditional coatings. Depending on the substrate and application, several layers may be applied. Lastly, using of a low viscosity activator / crosslinking agent in the S-Glide system eliminates the need for solvent dilutions to reduce viscosity.

Product Information

Color	Clear, colorless
Finish/Sheen	High gloss
Components	2 (mixing ratio 100:20)
Volume Solids	90% ± 2%
VOC	100 g/L* (EPA Method 24) *Applied coating reaction/curing will produce VOC of mixed alcohols
Flash Point	242.6 °F Method: DIN EN 22719 (DIN 51758)
Unit Size	150 ml, 360ml, 25kg and 55 Drums

Application / Drying / Overcoat Information

Method of Application	Brush, roll, spray
Number of coats	Single or multiple
Dry Film Thickness	2-8 mils (50-200 microns) per coat
Application Temp	Ambient: 32˚F to 130˚F
Theoretical coverage	1 mil dft: 1350ft²/gal (Dry Film Thickness) 3 mil dft: 450ft²/gal
Dry Time 4mil dft at 70˚F (50%RH)	To touch: 4 hours Through: 8 hours
Overcoat	Minimum 12 hours. After a 24 hour waiting period, a light sanding between coats is recommended.
Thinner (if needed)	Max 10% Butyl acetate, xylene
Cleaning	Butyl acetate, xylene

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Surface Preparation

S-Glide bonds very well to clean, bare metal. Excellent bonding occurs to clean, corroded substrates, although a blasted or abraded surface is preferred. To help release surface tension on difficult (for example, polished surfaces), Imada Prep-100 is recommended as a priming solution. Very porous substrates in extremely corrosive environments may be saturated/penetrated with SilOxi-101 for very deep protection prior to coating with S-Glide. S-Glide is compatible with most epoxy primers and is highly recommended as a top-coat on zinc-rich primer systems. Coating performance is always proportional to the degree of surface preparation. Avoid shortcuts. Inadequate performance will follow inadequate surface preparation.

Application / Systems and Use

Working area should be sheltered from weather and wind as well as from airborne particles and pollutants. Ensure good ventilation during coating and curing.
Plan your application well. Do all masking and prep-work prior to mixing. After the two components are mixed, the **pot life is 4-6 hours** depending on temperature and humidity.
Mix S-Glide Base and activator Imada Act-300 as pre-measured kits or in larger proportions 100:25 or 100:30 depending on climate conditions. First add desired S-Glide volume in a separate clean, solvent resistant container. Then add Imada Act-300 activator slowly while stirring without mixing air in to it. Stir for a couple of minutes until the mixture is completely clear. Make sure the activator has come in contact with the complete solution. Let mixture rest for a few minutes before application.

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.

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.

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.