

AmorZane™ 5800 Polysilazane

INTRODUCTION

AmorZane™ 5800 is a liquid low-viscous, solvent-free polysilazane resin to be employed as coating binder and polymeric ceramic precursor.

FEATURES

- Good adhesion, hardness and hydrophobicity.
- Pyrolyzed ceramic exhibits outstanding high-temperature stability, enduring peaks up to 1000 °C.
- High ceramic yield.
- Curable via thermal, UV, or catalytic methods

PHYSICAL PROPERTIES

Color and Appearance	Colorless or yellowish clear liquid
Viscosity (25°C, cSt)	30-50
Active Content (%)	100

PERFORMANCE

Ceramic Yield (%)	80-90
Pencil Hardness	6H, DIN EN ISO 15184
Adhesion Rating	5B, ASTM D5539
Contact angle water	107°
Temperature stability	Up to 500°C

* Dry film thickness: 4 µm

* Tested on 304 stainless steel surfaces after 4 hours at 180°C.

APPLICATIONS

- High-temperature coatings for protecting metals against corrosion
- Non-stick, high-temperature coatings for rollers and molds
- Applicable to metal, glass, and ceramic substrates

PROCESSING AND CURING

Painting can be applied by wiping, dipping, spraying, brushing, rolling.

CURING

Cured in 3-4 hours at 180 °C or 0.5 hour at 250 °C.

PACKING

AmorZane™ 5800 is available in 1Kg aluminum bottles, 5Kg aluminum bottles and 200Kg PE-Inliner steel drum.

STORAGE

AmorZane™ 5800 remains stable for up to one year when stored in its unopened container in a cool (5-25 °C), dry, and light-protected environment.

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Once opened, reseal the container tightly to keep out moisture and contaminants, and always store it in a well-ventilated, cool, dry area. Use only with adequate ventilation.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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