

Technical Data Sheet

Product Description

Gentoo is a clear, hydrophobic sol-gel chemistry that is specifically formulated for easy cleaning and corrosion protection. It is a low viscosity solvent-based system that can be applied with roller or brush, by flow-coating, dip-coating, or by spray application. It is water resistant and repels many paints, solvents, and hydrocarbons.

Product Characteristics

Finish:	Glossy
Color:	Clear
Percent Solids:	15 - 20% (Part A and Part B combined)
VOC:	630 g/L (5.26 lbs/gal) (Part A and Part B combined)

Typical Properties

Contact Angle:	110° - 115° (50 µL droplet)
Watershedding Angle:	5° - 10°
Dry Thickness:	4 - 6 microns
Service Temperature Range:	-50°C - 160°C (-58°F - 320°F); Short Term: <200°C (<392°F)
Shelf Life:	One year in original packaging at 24°C (75°F)

Surface Preparation

Remove all oil, grease, dust, dirt, loose rust, and other foreign materials to promote optimum adhesion. Clean smooth surfaces with 99% isopropyl alcohol (IPA) and microfiber cloths or other lint-free cloths. Gentoo may not bond to all types of plastic without further preparation. Corona treatment, flame treatment or abrasive surface preparation may be required in order to attain adequate adhesion on plastics. The use of a rubber primer may improve adhesion of Gentoo to rubber. For best results when applying Gentoo to painted surfaces, apply Gentoo when the paint is still "green" (dry to the touch, but not fully cured). Please see the Gentoo Surface Preparation Chart for more information: <http://ow.ly/KVAX30iH7K6>

Personal Protective Equipment

Flow, Dip, Brush or Roller Coating: always wear the following minimum personal protective equipment: safety goggles and nitrile gloves. A paint suit/ Tyvek suit is recommended. If engineering ventilation controls are not available or sufficient, use a respirator (NIOSH/MSHA approved half-face respirator with an organic vapor cartridge) to protect from solvent vapors. Refer to Safety Data Sheets (SDSs) for both Part A and Part B before beginning to apply Gentoo.

Spray Coating: DO NOT spray Gentoo without sufficient engineering ventilation controls or without making a minimum of full-face respirators with OV/AG/P100 filters (OV = Organic Vapor; AG = Acid Gas) available to all those exposed to Gentoo spray. Wear nitrile gloves. A paint suit/Tyvek suit is recommended. Refer to Safety Data Sheets (SDSs) for both Part A and Part B before beginning to apply Gentoo.

Application Guidelines

Mix Ratio:	1:1 Part A to Part B (by weight). Blanket any unused Part A with argon (preferred) or nitrogen gas
Hydrolysis Time:	90 - 120 minutes at 18°C - 24°C (65°F - 75°F)
Filtration:	1-micron glass fiber filters
Brush, flow, dip:	Use equipment designed for solvents or oil-based paints
Spray (settings):	HVLP with 1.0 mm needle/tip and gun pressure less than 20 psi
Drying/Curing:	Tack free 10-30 minutes. Curing: 1 hour at 90°C (194°F); 24-48 hours at 25°C (77°F)
Cleanup:	Cleanup immediately with acetone. Once Gentoo is dry, it may need to be cleaned with abrasive means
Pot Life:	Under 4 hours at 30°C (85°F) 6 hours at 21° C (70°F) Up to 16 hours at 5°C (40°F)

Complete application instructions:

<http://www.spillcontainment.com/media/2767/gentoo-application-instructions.pdf>

Application Video:

<https://youtu.be/xJ4pAx-aaPo>