Gentoo™
Advanced Clear Hydrophobic Coating

Mixing Gentoo

Quart Kits

1. Review Documentation Before Starting

- Safety Data Sheets (SDSs): Part A and Part B
- Technical Data Sheet (TDS)
- Application Instructions

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2. Use Personal Protective Equipment

- As outlined in SDSs, TDS, and Application Instructions

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3. Shake Part A for 30 seconds

- Video shows steps 3 through 6 for a full quart kit: https://www.youtube.com/watch?v=GWbatgsxbvA

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4. Pour Part A into Clean Container

- Acceptable container materials: glass, stainless steel, polyethylene, polypropylene
- The entire quart can be used if desired
- If not using the entire quart, measure and record the weight of Part A being used

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5. Add Part B to Part A

- Part B does not need to be shaken
- If the entire (new, unopened) bottle of Part A was used in Step 4, add the entire (new, unopened) bottle of Part B. Both bottles are filled to the same weight during production.
- If only some of the Part A quart container was poured out in Step 4, match the weight of Part B to Part A. They should be mixed together at a 1:1 ratio by weight.

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6. Mix the Liquid

- Can mix continuously during the entire hydrolysis period
- Alternatively, can mix by hand for 2 minutes
  - Use clean stir rod/stick
  - Allow coating to sit for remainder of hydrolysis period
  - Mixing by hand has been tested with quantities up to 4 gallons (15 liters) of Gentoo (A+B). Larger quantities may require more hand mixing time.

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7. Hydrolysis Time

- Coating must not be applied until the hydrolysis time has elapsed
- Hydrolysis time: 120 minutes at 21 °C (70 °F) or above

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8. Blanket Unused Part A

- Preserve Part A by blanketing with inert gas (argon or nitrogen)
- https://www.youtube.com/watch?v=PNTTk_Q-7FM

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9. After Hydrolysis Time is Complete

- Apply Gentoo
- If not ready to apply Gentoo, can put in chemical fridge or freezer to extend pot life
- Alternatively, can put in cooler, with ice surrounding sealed containers of hydrolyzed Gentoo: https://youtu.be/he4l1vOnXEw
- Pot Life
  - Under 3 hours at 30 °C (85 °F)
  - Approx. 5 hours at 21 °C (70 °F)
  - Up to 16 hours at 5 °C (40 °F)

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