



Product Application & Results

1997 American Blvd. • P.O. Box 5606 • De Pere, WI 54115-5606 • 920-337-2175 • Fax: 920-337-9410

PRODUCT: **Blend 107 Performix®** **Stock # UF107**

Description: Ultra concentrated liquid component of alkaline presoaks for mostly touchless type of car washes. Intended for use together with Granular Base 1050 and other Alkaline Bases. Contains highly effective surfactants for maximum cleaning and economics. Product optimized for quick penetration of road film and emulsification of oil components in dirt on car surface. Blend 107 Performix contains special surfactants that help clarify reclaim systems. In addition, product contains additive which allows use of hard water for making presoaks with Alkaline Base 031, LiquiBase 030 and Granular Base 1050.

Color: Light straw

Scent: Mild Chemical

Foaming Ability: Medium

| Features | = | Benefits |
|---------------------|---|---|
| Ultra Concentrated | = | Convenience and Value. |
| Highly Effective | = | Excellent removal of dirt, oils and road film. |
| Reclaim clarifier | = | Settles small particles from reclaim water giving longer runs between filter cleaning and less wear on nozzles and pumps. |
| Phosphate chemistry | = | Superior cleaning performance in mixture with Granular base 1050 as no technically and economically feasible alternatives to the use of phosphates currently exist. |

| Application | Dilution Ratios | | |
|---|------------------------|----------------|----------------|
| | Strongest | Weakest | Average |
| Touchless In-Bay, Friction & Hybrid Systems | 1:400 | 1:500 | 1:450 |

| Application | Base/Blend Ratios | | |
|--|--------------------------|-------|------|
| Presoak – Granular Base 1050 and Blend 107 | 8:1 | 12:1 | 10:1 |
| Presoak – Base 031 and Blend 107 | 10:1 | 14:1 | 12:1 |
| Presoak – Base 030 and Blend 107 | 1.5:1 | 2.5:1 | 2:1 |

Blend 107 Performix can be drawn direct together with Granular Base 1050 or Alkaline Base 031 solution from ClearMix™ 55 by using checkhub part #P21000013 and single tip configuration.

Blend 107 Performix can be drawn direct together with LiquiBase 030 using new checkhub part #P21000032 and single tip configuration. This checkhub performs up to five times longer than regular checkhub under extreme chemical conditions.

Required strength of product dilution will vary depending on cleaning conditions and type and condition of equipment used.



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Guidelines for Application

Water Quality:

Use SOFT WATER for best performance. Mix only with fresh water, never use reclaim water. Hard water can be used with Granular Base 1050, Alkaline Base 031 and LiquiBase 030.

Solution Temperature:

Cleaning will improve if applied with warm (100°F) water. Warm water is especially recommended in colder weather. Presoak based on Granular Base 1050 and Blend 107 Performix works at peak performance when the temperature of solution on the vehicle surface is between 100 and 110°F. Product performance is reduced at surface temperature over 120°F.

Dwell time:

Allow a minimum of 30 seconds between presoak and high-pressure rinse or high pressure wash. Decrease dwell time if vehicles are hot to avoid increasing the product concentration through evaporation of the water.

Economy:

Reduce volume through alternative nuzzling, equipment changes. Do not over-heat dilution water as it wastes energy and can decrease product effectiveness.

Special Instructions

USE ACCEPTABLE/COMPATIBLE TUBING AND MATERIALS IN FOOT-VALVES & SEALS ON METERING DEVICES.

| | |
|---------|--|
| O-rings | Brown Viton 0%, Neoprene -0.6%, Blue Fluorosilicone FVMQ -0.2% |
| Tubing | Watts RVGE clear PVC -1.2%, HDPE -0.1%, Polypropylene 0% |
| Metals | 316 Grade SS Corrosion rate 0.9 µm/year, 304 Grade SS Corrosion rate 4 µm/year, 303 Grade SS Corrosion rate 1 µm/year, Brass Corrosion rate 7.5 µm/year. |

USE OF RESTRICTED MATERIALS SHOULD BE LIMITED.

| | |
|---------|--------------------------------|
| O-rings | EPDM -1.9%, Buna N NBR70 -2.6% |
| Tubing | Polyurethane +3.8% |

Product Pairings:

Alkaline presoaks of Blend 107 Performix and various Bases can be enhanced for better customer experience with Ultra Concentrated Dyes and Fragrances. Refer to "Product Application & Result" documents for appropriate products for guidance in application. Use highly chemical resistant checkhub part #2100036 to combine Blend 107, Alkaline Base and Fragrance.



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Viscosity – temperature relationship

Viscosity of this product changes significantly with temperature as shown in the chart below (water viscosity at 72°F = 1 centipoises, cp). Significant change in product temperature requires ADJUSTMENT of metering tips or pump setting to keep similar flow of product through metering devices.

| Temperature, °F | UF107 Viscosity, cp |
|-----------------|---------------------|
| 30 | 224 |
| 40 | 186 |
| 50 | 131 |
| 60 | 95 |
| 70 | 72 |
| 80 | 56 |
| 90 | 44 |
| 100 | 36 |

Titration Chart: Use the chart below with “Alkaline Titration Test Kit” T-100A to determine dilution ratio of Alkaline Presoak as mixture of Granular Base 1050 and Blend 107 Performix. A water-blank must be subtracted from the titration prior to comparing to the following chart.

| Titration Chart For Alkaline Presoak - Granular Base 1050 and Blend 107 Performix. | | |
|--|-----------------|--------------|
| This chart uses the “Alkaline Titrant” and a water blank must be titrated to subtract from your total drops before comparing to this chart. Sample size = 1 tube. | Dilution | Drops |
| | 1:20 | 61 |
| | 1:25 | 49 |
| | 1:30 | 41 |
| | 1:40 | 31 |
| | 1:50 | 25 |
| | 1:60 | 22 |
| | 1:70 | 18 |
| | 1:80 | 16 |
| | 1:100 | 14 |