



Product Application & Results

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PRODUCT: Ultraflex® Pearl Black 405 - **Stock # UF405**
Drying Agent

Description: A highly-concentrated, premium drying agent that incorporates the latest advances in surfactant chemistry, causing water to break faster, resulting in a drier car. Product designed for use in all type of car wash systems, but showed particular exceptional results in tunnel application.

Color: Black liquid

Scent: Mild

Foaming Ability: Low

| | | |
|-------------------------------|---|---|
| <u>Features</u> | = | <u>Benefits</u> |
| Ultra Concentrated | = | Convenience and Value. |
| Highly Effective | = | Cars dry faster. |
| Advanced surfactant chemistry | = | Lowest retention time for residual water drops. |

| <u>Application</u> | <u>Dilution Ratios</u> | | <u>Average</u> | <u>ml per car</u> |
|---------------------------|-------------------------------|-----------------------|-----------------------|--------------------------|
| | <u>Strongest</u> | <u>Weakest</u> | | |
| Most Drying Application | 1:800 | 1:1600 | 1:1000 | 4 - 14 |
| Self-serve Application | 1:500 | 1:1200 | 1:800 | 5 - 10 |

Ultraflex® Pearl Black 405 can be drawn direct using checkhub (P21000001) and single tip configuration.

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

Guidelines for Application

Water Quality: Mix only with fresh water, never use reclaimed water.

Solution Temperatures: Warm water will drastically improve product performance, but cold water can be used too.

Surface Preparation: Vehicles should be clean and well rinsed prior application of drying agent.

Economy: Adjust dilution to get the desired beading at the greatest economy. While low pressure, low volume systems are the most efficient at applying drying agents, Pearl Black 405 works well under high pressure too.

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Special Instructions

Normal clear PVC vinyl draw tubing (P20010002-100) can be used from reservoir to the point of dilution.

USE VITON FOOT-VALVES & VITON SEALS ON METERING DEVICES.

If applying using arch or overhead bar at the end of a tunnel, adjust amount of spot-free water from the following arch of rain bar to minimum. This will provide maximum drying efficiency.

Product usage – solution volume relation.

Use chart below to estimate dilution ratio (1: X) from drying agent (DA) usage per car and volume of solution which was sprayed on the car during drying agent application. It can be also used to set-up drying agent (DA) usage per car from known volume of solution, which was sprayed on the car during drying agent application, and desirable dilution ratio.

| Dilution ratio, 1:X | 0.5 gallon of solution per car | 1gallon of solution per car | 1.5 gallon of solution per car | 2 gallon of solution per car | 2.5 gallon of solution per car | 3 gallon of solution per car |
|---------------------|--------------------------------|-----------------------------|--------------------------------|------------------------------|--------------------------------|------------------------------|
| 800 | 2.4 ml of DA per car | 4.7 ml of DA per car | 7.1 ml of DA per car | 9.5 ml of DA per car | 11.8 ml of DA per car | 14.2 ml of DA per car |
| 900 | 2.1 | 4.2 | 6.3 | 8.4 | 10.5 | 12.6 |
| 1000 | 1.9 | 3.8 | 5.7 | 7.6 | 9.5 | 11.4 |
| 1100 | 1.7 | 3.4 | 5.2 | 6.9 | 8.6 | 10.3 |
| 1200 | 1.6 | 3.2 | 4.7 | 6.3 | 7.9 | 9.5 |
| 1300 | 1.5 | 2.9 | 4.4 | 5.8 | 7.3 | 8.7 |
| 1400 | 1.4 | 2.7 | 4.1 | 5.4 | 6.8 | 8.1 |
| 1500 | 1.3 | 2.5 | 3.8 | 5.0 | 6.3 | 7.6 |
| 1600 | 1.2 | 2.4 | 3.5 | 4.7 | 5.9 | 7.1 |

Viscosity – temperature relation.

Viscosity of this product will change with temperature according 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 | Viscosity, cp |
|-----------------|---------------|
| 40 | 139 |
| 50 | 106 |
| 60 | 83 |
| 70 | 66 |
| 80 | 54 |
| 90 | 45 |
| 100 | 38 |
| 110 | 32 |