

DIAMOND PEARLS

ULTRA-GLO (DP Series)

Acrylic Urethane Topcoat



TECHNICAL DATA SHEET

Kirker's new Diamond Pearl (DP) Series features all the same advanced acrylic urethane technology as the ULTRA-GLO color system, but in a stunning combination of soft pearls and intense pigments that yield subtle color-shifting effects. With six beautiful shades to choose from, these unique colors are perfect for overall refinish use, graphic accents, delicate fades or custom blends. This is a catalyzed topcoat system offering a premium finish with exceptional durability that far surpasses enamel-based systems. Manufactured with quality raw materials and advanced acrylic urethane technology, DP Series colors feature excellent resistance to harmful UV exposure, dangerous chemicals, everyday weathering and aggravating stone chips. Thanks to exceptional lightfast properties, DP Series colors won't fade like most other bright custom colors. May be applied in a single-stage application, or with a urethane clearcoat or urethane candy for additional durability and gloss. Kirker's new ULTRA-LOCK additive (UA-2400) allows users to convert single-stage urethane colors into activated urethane basecoats.

COATING TYPE:

Acrylic Urethane Paint (Single-stage)

PRODUCT CODE:

"UA" prefix; Factory-pack colors (see color chart)

ACTIVATORS:

UA-1600M - Medium temp (Below 80°F)

UA-1600S - High temp (Above 80°F)

REDUCERS:

Additional reduction is not required.

UR-9065 / UR-8065 Fast (Low temp)

UR-9075 / UR-8075 Medium (Mid temp)

UR-9085 / UR-8075 Slow (High temp)

UR-9095 / UR-8095 Super slow (Very high temp)

UE-8000 Universal Zero-VOC Reducer



PHYSICALS:

Appearance: Paint (color varies)

Weight per gallon: Varies with color

Package measure: ¾ U.S. gallon / 96 fl. oz.

RTS viscosity: 18-20 seconds in #2 Zahn Cup

RTS VOC: Maximum VOC of 5.0 lbs/gallon
(National Rule Compliant)

SUITABLE SUBSTRATES:

ULTRA-GLO – Acrylic Urethane topcoat
Apply DP Series Colors over a solid ground coat.

PERFECT PRIME – 2K Primer Surfacer (Overall)
(UP731 / UP732)

RAPID PRIME – 2K Primer Surfacer (Spot / Panel)
(UP711 / UP712)

ENDURO PRIME – Epoxy Primer
(EP611 / EP612)

SUPER RUST STOP – Non-Sanding Primer
(201, 202, 1260, 1262, 1264)

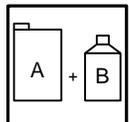
Well-prepped OE finishes and other automotive-grade primer systems may also be suitable



SURFACE PREP:

Remove all traces of wax, grease, silicone, oil and other contaminants with detergent wash, followed with a solvent wash (such as Kirker's 650 Wax & Grease Remover). Abrade substrate with 600-800 grit, to ensure sufficient adhesion. Re-clean with final wash cleaner (such as Kirker's 600 Surface Wash).

ULTRA-GLO may also be applied "wet on wet," over certain freshly applied undercoats including Kirker's PERFECT Prime and RAPID Prime after approximately 30 minutes flash time; or ENDURO Prime after 30-45 minutes flash. Be sure to mask all adjacent panels to prevent dry overspray.



MIXING:

Please note that while every attempt for color consistency is made, there may be some difference in shade from one batch to the next. If using multiple cans of the same color, for the same job, be sure to check for a common batch code before starting. This can be identified by the five-digit number marked either on the lid or face of the can. If batches are not the same, all materials should be blended prior to use to ensure color consistency.

Mix ratio: 3:1 by volume. Thoroughly mix three (3) parts Diamond Pearl Series SSU color with one (1) part of the appropriate Activator (UA-1600M / UA-1600S), depending on air flow and shop temperatures.

| Temperature range | Less than 80° F | More than 80° F |
|-------------------|-------------------|-----------------|
| Activator | UA-1600M (Medium) | UA-1600S (Slow) |

No additional reduction is required. If necessary, use one of Kirker's urethane-grade reducers (chosed from the list below depending on the anticipated shop temperature at the time of application), or Universal Zero-V.O.C. Reducer (UE-8000). WARNING: With further reduction beyond the recommended 3:1 mix ratio, ULTRA-GLO may no longer be VOC compliant for your area.

| Temperature range | Less than 70° F | 70° F - 80° F | 80° F – 90°F | Above 90°F |
|-------------------|-----------------|---------------|---------------|---------------|
| Reducer (Gallon) | UR-9065 (Gal) | UR-9075 (Gal) | UR-9085 (Gal) | UR-9095 (Gal) |
| Reducer (Quart) | UR-8065 (Qt) | UR-8075 (Qt) | UR-8085 (Qt) | UR-8095 (Qt) |
| Speed | FAST | MEDIUM | SLOW | SUPER SLOW |

If necessary, Kirker's UFE8 Universal Fish Eye Eliminator may be added to the mix (1/2 ounce per ready-to-spray quart of Diamond Pearl Series SSU).

Caution: Mix only as much material as you will need to complete the immediate job.

3:1

| | | | | |
|----------------------|--------------|---------------|---------------|---------------|
| UA SSU Color | 6oz | 12 oz. | 24 oz. | 48 oz. |
| UA-1600 Activator | 2 oz. | 4 oz. | 8 oz. | 12 oz. |
| TOTAL MIXTURE | 8 oz. | 16 oz. | 32 oz. | 64 oz. |



ULTRA-LOCK BASECOAT CONVERTER OPTION:

ULTRA-GLO colors may be converted to spray and perform more like basecoat by integrating Kirker's new ULTRA-LOCK (UA-2400) additive into the mix. ULTRA-LOCK significantly improves sprayability and ease-of-use while while converting single-stage urethanes into fast-drying, basecoat-like finishes. Anti-Mottle Technology stabilizes metallics and pearls, locking these effect pigments in place for an even, streak-free finish.

To use, mix three (3) parts ULTRA-GLO SSU color with one (1) part of the appropriate Activator (UA-1600M, UA-1600S), depending on air flow and shop temperatures, and one (1) part UA-2400 ULTRA-LOCK.

See Technical Data Sheet for ULTRA-LOCK for more specific information and details about application procedures.



POT LIFE:

Approximately 2 hours at 70°F.

CAUTION: Pot life is significantly shorter at elevated temperatures and in humid conditions. These environmental factors also may affect flow and leveling during the application process.



GENERAL GUN SETTINGS:

| <u>GUN TYPE</u> | <u>TIP SIZE</u> | <u>AIR PRESSURE</u> |
|----------------------------|-----------------|----------------------|
| Conventional Siphon Feed: | 1.2 mm – 1.6mm | 40-50 psi at the gun |
| Conventional Gravity Feed: | 1.2 mm – 1.5 mm | 40-50 psi at the gun |
| HVLP | 1.2 mm – 1.4 mm | 8-10 psi at the cap |

These are general gun setting recommendations. Always refer to gun manufacturer's recommendations for more specific and additional details on suggested tip size, air pressure and other adjustments.



APPLICATION:

These instructions are for Kirker's Diamond Pearl Series colors. Please refer to appropriate Technical Data Sheet for more specific application instructions if using standard solid, metallic or pearl ULTRA-GLO colors, Urethane Candy Base (UCB) Series metallic colors or the SPECTRA Series (UC) urethane candy colors.

DIAMOND PEARL SERIES

Apply ULTRA-GLO DP Series colors in even coats with consistent overlap as necessary to achieve desired appearance, allowing at least ten (10) minutes flash time between coats (+/- depending on airflow and temperature). Insufficient flash times will result in a re-floating of the pearl, potentially causing a mottled finish.

Chips on the Kirker Color Selector show three medium wet coats of DP Series color applied over a solid Pure White (UA-81030) ground coat, however any ULTRA-GLO color (or combination of colors) may be used. Lighter ground coats will produce the brightest, most vibrant appearance for DP Series colors, while darker ground coat colors will yield a deeper shade.

Consistent application technique is important with DP Series colors, which become increasingly rich as more material is applied. Using fewer coats will create a more subtle pearl appearance, while additional coats will yield a heavier pearl effect.

Any of Kirker's urethane clearcoats may be integrated with DP Series colors, at any mix ratio, to create even more subtle pearlescent effects (clear should be mixed with appropriate activator at the correct ratio prior to blending with activated DP Series color). This DP Series color / urethane clearcoat mix also makes blends and fades much easier.

Diamond Pearl Series colors are single-stage urethanes, featuring the same coating technology as Kirker's ULTRA-GLO colors. As such, they do not require a clearcoat, though the use of one will increase exterior durability and gloss. Although not necessary, a clearcoat is suggested for multiple-phase custom paint jobs. This will protect the pearl finish, while making it easier to wet sand, tape and apply graphics over the surface. DP-Series colors may also be topcoated with Kirker's SPECTRA Series Urethane Candy Colors. For optimal intercoat adhesion, DP-Series colors should be topcoated within the maximum 18-hour recoat window.



| DRY TIMES: | <u>AIR DRY</u> | <u>FORCE DRY</u> (Bake for 40 minutes at 140° F after five-minute flash) |
|-------------------|----------------|--|
| Dust free: | 15-20 minutes | End of cycle |
| Tack free: | 1 hour | End of cycle |
| Tape: | 8 hours | 20 minutes after cycle |
| Polish: | 8 hours | 20 minutes after cycle |
| Full cure: | 18-24 hours | 20 minutes after cycle |
| Stripe: | Next day | 20 minutes after cycle |
| Deliver: | 24 hours | 20 minutes after cycle |
| Decal: | 48 hours | 20 minutes after cycle |

Air-dry times may vary slightly depending on shop temperatures, airflow and total film thickness. All dry times listed are approximate, at 70° - 75°F



CLEANUP:

Close all containers tightly after each use. Clean gun and spray equipment with gun wash or other appropriate solvent products immediately after application to prevent damage.

Shelf life of UA-1600M and UA-1600S Activator is limited once cans have been opened. These products are extremely susceptible to oxygenation and exposure to moisture. Therefore, containers should be closed tightly after each use, with a clean seal, as quickly as possible. Also, activators should be stored at a consistent temperature to prevent the formation of potentially damaging condensation inside of the can.



RECOAT WINDOW:

Like all ULTRA-GLO topcoats, DP-Series colors may be recoated for up to 18 hours (at 70° - 75°F). After 18 hours, surface must first be abraded with 600-800 grit to promote sufficient adhesion before recoating.



POLISH:

In single-stage applications: After eight (8) hours dry time, DP-Series colors may be sanded with 1500 grit or finer to abrade surface and / or remove dust nibs and other imperfections such as orange peel, then with 2000 grit or finer to remove 1500-grit scratches.

Great care should be taken when sanding pearl colors. Only abrade surface lightly. Do not cut too deep into film, as pearl effect pigments rest just beneath film surface.

Use a wool pad or foam pad in combination with a high-quality finishing compound, following material manufacturer's instructions. Follow with a high-quality finishing glaze applied either by hand, or variable-speed buffer.



HEALTH / SAFETY PRECAUTIONS:

THIS PRODUCT IS INTENDED FOR USE BY PROFESSIONALS ONLY.

USE THIS PRODUCT ONLY WITH ADEQUATE VENTILATION: Wear appropriate, properly fitted fresh-air-supplied NIOSH/MSHA-approved respirator (TC19C or equivalent) as directed by the manufacturer. Protect hands with impervious nitrile gloves. Always wear eye and face protection. Individuals with lung or breathing problems should neither use nor be exposed to this product, its vapors or spray mist. READ ALL WARNINGS ON ALL LABELS BEFORE USING.

This product is designed to be mixed with other components. Mixture will have hazards of all components. Before opening the packages, read all warning labels. Follow all precautions. See Material Safety Data Sheets for additional health and safety information.

WARRANTY:

All recommendations for the use of Kirker products are based on tests and experience believed to be reliable. It is the responsibility of the purchaser to determine the suitability of this product for its intended use. Since the methods of use, conditions of application, and the application itself are beyond manufacturer's and sellers' control, product warranty is restricted to replacement of material only. No other warranty, written or oral, is expressed or implied.

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