



## Technical Data Sheet



# Ultra-Violet Light Stabilizer (UVLS) Clears

## Water-Based

### Acrylic – Aliphatic Polyurethane Resin

#### Description

UVLS clears are water-based, architectural-grade clears made for interior and exterior applications. UVLS Clears are made with an acrylic – aliphatic polyurethane resin which is exceptionally durable with excellent adhesion. Clears are durable and do not yellow over time.

UVLS stands for Ultra-Violet Light Stabilizer; clears contain UV protection for underlying colors, especially helpful when top-coating candy2o and other dyes & stains.

UVLS Clears have an ASTM E84 Class A fire rating for smoke & flame spread.

Available in 4050 Gloss, 4051 Satin and 4052 Matte.

- 4050 Gloss is the highest gloss-level CreateX clear.
- 4051 Satin & 4052 Matte maintain a consistent gloss-level that doesn't "gloss up" when excess material is applied.
- 4050 Gloss has the best adhesion and is the recommend UVLS Clear for use as a primer.

#### UVLS Clears Have 3 Functions

1. Top-coat clear for sign, costuming, modeling and more.
  - Perfect top-coat to any CreateX paint for applications other than automotive.
  - Excellent flexibility for cosplay & costuming.
  - For interior & exterior applications. Allow 48 hours air drying before direct contact with water, 5 days minimum air drying before water submersion.
  - Excellent mar resistance, clears including matte, withstand direct contact without showing abrasion.
  - Work excellent as inter-coat clear to tape and mask over.
2. Primer – Adheres to most any substrate except silicone.
  - Direct-to-Metal primer with excellent adhesion to any metal including brass and steel without risk of

corrosion. For best adhesion onto polished, non-sanded metals, allow 48-hours air drying.

- Direct to most plastics including 3D print composite material, polycarbonate, styrene and more. For especially hard to paint plastics such as graffiti-proof cases, not scuffing substrate and allowing 4050 Gloss 48-hours to air dry creates best adhesion.
- Excellent wood primer. Protects without raising wood grain. Prevents underlying oil and tannin bleed-through.
- All UVLS Clears may be used as primer; 4050 Gloss has the best adhesive properties.

3. candy<sub>2</sub>O carrier

- 4050 Gloss is the best medium to mix with concentrated candy<sub>2</sub>O colors.
- 4050 Gloss is a better carrier compared to 4030 Balancing Clear as it creates a more even color coat that may be applied more saturated.
- Mix 4050 Gloss 3:1 candy<sub>2</sub>O, then thin with 4011 Reducer 5% - 10% per volume.

#### Mixing & Thinning UVLS Clears

UVLS Clears are thinned with 4011 Reducer 5% - 10% per volume.

- 4011 Reducer is the go-to thinner for UVLS Clears.
- Allow reduced UVLS Clear 10+ minutes to acclimate before spraying. The added reducer breaks down surface tension in the clear for improved flow & leveling.
- Distilled or deionized water may be used 5% - 10% per volume to thin clears, do not exceed as drying times and adhesion will be affected.

#### Application

UVLS Clears may be applied by spray-gun, airbrush or traditional brush. Pin-hole free coverage is achieved with 3 medium coats.

- Spray-Gun: 1.3mm – 1.4mm, ~ 1.2 – 1.5 bar inlet
- Mini-Gun: 1.0mm – 1.2mm, ~ 1.0 – 1.4 bar inlet
- Airbrush: 0.5m ~ 1.4 – 1.7 bar



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Apply coats medium, wetted so they look glossy during application but not so much material that the coat “milks up”, that is appears cloudy due to excess build.

- Each coat should be ~ 0.5 - 0.75 mil. wet.
- If coat appears cloudy, allow extended drying time.
- Avoid over-atomizing; clears are best applied at lower psi settings for best adhesion and highest gloss-level of 4050 Gloss. Dry-sprayed coats will lose gloss and adhesion.

Scuffing paint prior to applying UVLS Clear is not required for adhesion.

- When applying as a primer, substrate is best prepared by scuffing 400 – 800 grit sandpaper.
- Clean sanded substrate with a solvent-based degreaser, not a water-based cleaner.

#### **Drying Times & Curing**

Estimated drying and curing times are set at 700F (210C) and 50% or less relative humidity (RH). Allow for extended drying times when painting in colder temperatures or more humid conditions. Painting in temperature below 600F (150C) not recommended.

Re-coat times are approximately 10 – 15 minutes.

- Allow clears to dry matte (non-wetted).
- There are no time windows, if in doubt, allow for extended drying time.

Time to tape is 45 – 60 minutes.

- When applying direct to difficult substrates, allow for extended drying times, up to 48-hours for substrates such as polished stainless steel that is not sanded for paint preparation.

Do not use heat to assist to force dry as this may result in loss of adhesion. Use warm air to assist drying times.

Allow 6-hour minimum air drying before sanding & polishing. Full cure is in excess of 48-hours after application. Allow 5 day minimum drying before water submersion.

#### **Storage**

UVLS Clears do not have a pot-life after mixing with reducer. However, as 4011 Reducer promotes drying and curing, only reduce clear intended for application within a 12-hour period for best spray consistency, flow and leveling.

Keep clears capped air-tight when not pouring from the bottle. Store away from direct light in a cool, dark environment such as a paint cabinet or box in a closet.

#### **Compatibility**

UVLS Clears are compatible as a clear or primer with any Createx paint.

- Compatible as a top-coat or primer for other paint types, both water-based and solvent-based.
- Always allow paint to dry thoroughly before top-coating with UVLS Clear.

#### **Cleaning from Airbrush or Spray-Gun**

UVLS Clears are best rinsed from the airbrush or spray-gun with 5618 Airbrush Cleaner or 4011 Reducer. Use 4008 Restorer as a rinse for final clean to remove dried paint.

#### **Cleaning UVLS Clears after Curing**

UVLS Clears should only be cleaned thoroughly dried. Use a solvent-based degreaser or odorless mineral spirits to clean. Often, a dry, tack-free wipe is adequate to clean UVLS Clears.



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### Health & Safety

Use in a well-ventilated area. Avoid contact with eyes. Wash hands thoroughly with soap and warm water after use. Do not ingest. When spraying or sanding, use a properly fitting respirator. Eye contact: Rinse with clean water for 15 minutes. Seek medical attention. Inhalation: Use in in well ventilated areas and wear a respirator.

Refer to UVLS Clears SDS for additional information.

Manufactured by:

CreateX Colors  
East Granby, CT 06026, USA

European Distributor:  
CreateX Handels-GmbH  
Kirchhoffstr. 7  
24568 Kaltenkirchen  
Germany  
[info@createx.de](mailto:info@createx.de)  
[www.createx.de](http://www.createx.de)

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