



TECHNICAL DATA SHEET

BLACK DIAMOND LOW-VOC H/S URETHANE CLEARCOAT

The all new Black Diamond Low-VOC line from Kirker is designed to meet even the most stringent VOC standards. EC350 is a high-solids 2.1-VOC Urethane Clearcoat that delivers a beautiful finish with maximum gloss and extraordinary DOI. This fast-drying, fast-building clearcoat features excellent flow and leveling, with exceptional resistance to both shrinkage and dieback. Provides superior protection against chemicals, UV and weather

- ◆ 2.1 VOC meets even the most stringent standards
- ◆ Fast drying, fast delivery
- ◆ Beautiful, long-lasting gloss
- ◆ Excellent DOI
- ◆ High build in two coats

COATING TYPE:

Low-VOC Urethane Clearcoat

PRODUCT CODE:

EC350

ACTIVATORS:

LVA-375
LVA-385
LVA-395

WEIGHT PER GALLON:

9.64 lbs

PACKAGE MEASURE:

1 US Gallon / 128 fl. oz. / 3.785 Liters

RTS VOC:

Will not exceed 2.1 lbs/gallon

RTS Viscosity:

18-21 seconds, #2 Zahn cup



SURFACE PREP

If applying clearcoat to existing finish, 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). Sand existing finish to abrade with 600-800 grit. Re-clean with final wash cleaner (such as Kirker's 600 Surface Wash).

BLACK DIAMOND Low-VOC H/S Clearcoat may be applied wet-on-wet over basecoats and single-stage urethane topcoats after sufficient flash time (approximately 15-20 minutes). If applying clearcoat to newly applied (but cured) paint, sand with 800 grit before recoating to ensure sufficient adhesion.

If using EC350 for partial refinish or repair work, be sure to mask all adjacent panels to prevent dry overspray.

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MIXING

Mix ratio: 4:1 by volume. Thoroughly mix four (4) parts BLACK DIAMOND Low-VOC Urethane Clearcoat (EC350) with one (1) part BLACK DIAMOND Low-VOC Urethane Activator (LVA-375, LVA-385 or LVA-395, depending on size of the job, air temperature, humidity and other conditions at the time of application).

TO MIX	10 oz	25 oz	35 oz
CLEAR	8 oz	20 oz	28 oz
ACTIVATOR	2 oz	5 oz	7 oz

Use up to one (1) full part of BLACK DIAMOND Low-VOC Urethane Reducer, or in areas where VOC limits allow, use one of Kirker's ULTRA-GLO Urethane Grade Reducers.

TO MIX	12 oz	24 oz	36 oz
CLEAR	8 oz	16 oz	24 oz
ACTIVATOR	2 oz	4 oz	6 oz
REDUCER	2 oz	4 oz	6 oz

Note: Using ULTRA-GLO Reducers will increase the ready-to-spray system VOC, potentially rendering the mix non-compliant. Kirker recommends only persons with knowledge of local VOC regulations and the ability to calculate total system VOC attempt to use these reducers.

Always choose the appropriate activator and reducer based on the size of the job, as well as the anticipated shop temperature and other conditions at the time of application.

	SPOT	PANEL	OVERALL
SPEED	MEDIUM	SLOW	SUPER SLOW
ACTIVATOR	LVA-375 (qt)	LVA-385 (qt)	LVA-395 (qt)
LV REDUCER	LVR-575 (qt)	LVR-585 (qt)	LVR-595 (qt)
UR REDUCER	UR-9075 (gal)	UR-9085 (gal)	UR-9095 (gal)
	UR-8075 (qt)	UR-8085 (qt)	UR-8095 (qt)

If necessary, Kirker's Fish Eye Eliminator (UFE8) may be added to the mix (1/2 fl oz. per ready-to-spray quart of ULTRA Clear).

POT LIFE

Approximately two hours at 70°F.

Mix only as much material as is needed to complete the immediate job.

GUN SETTINGS

GUN TYPE	TIP SIZE	AIR PRESSURE
Conventional Siphon	1.4-1.7 mm	45-55 psi
Conventional Gravity	1.3-1.6 mm	45-55 psi
HVLP	1.3-1.5 mm	8-10 psi

Always refer to gun manufacturer's recommendations for additional details on suggested tip size, air pressure and other adjustments.

APPLICATION

Apply EC350 in two (2) to three (3) wet coats as necessary to achieve the desired build, allowing ten (10-20) minutes flash time between coats (+/- depending on air flow and temperature).

DRY TIMES

Dust Free:	10 minutes
Tack Free:	15-25minutes
Tape:	12 hours
Polish:	12 hours
Stripe:	12 hours
Deliver:	18 hours
Decal:	48 hours

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. Baking is not recommended for this clear.

RECOAT WINDOW

EC350 may be recoated for up to 18 hours. If reclearing after 18 hours, the surface must first be abraded with 1000-1500 grit sandpaper to promote sufficient adhesion. If applying basecoat over clear after its 18 hour recoat window has passed, surface should be abraded with 600-800 grit sandpaper.

POLISH

After at least twelve (12) hours dry time, EC350 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 sand paper to remove all 1500-grit scratches. Use a wool pad or foam pad in combination with a high-quality clearcoat finishing compound, following material manufacturer's instructions. Follow with a high-quality finishing glaze applied either by hand, or variable-speed buffer.

CLEANUP

Close all containers tightly after each use. Clean gun and spray equipment with Kirker's VOC Compliant Gun Wash (670) or other appropriate solvent products immediately after application to prevent damage.

HEALTH / SAFETY

THIS PRODUCT IS INTENDED FOR USE BY PROFESSIONALS ONLY. 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 Safety Data Sheet 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. Since the methods of use, conditions of application, and the application itself are beyond our control, product warranty is restricted to replacement of material only. No other warranty, written or oral, is expressed or implied.

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