Specialty Paints & Products for
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Q-COAT UC™ 2-COMPONENT POLYURETHANE
LOW HAPS / LOW VOC
JULY, 2025

Q-COAT UC™ CLEAR COATS
2-COMPONENT POLYURETHANE CLEAR COATING

Q-COAT UC™ Clear Coats are high performance 2-component acrylic - polyester polyurethane clear coats specifically formulated to provide added UV, mar and chemical protection to existing pre-painted surfaces. **Q-COAT UC™ Clear Coats** are formulated with the high performance acrylic resins, polyester resins, additives and solvents to assure outstanding protection and exceptional gloss level retention. Available in popular gloss levels eliminating the need to "post add" flatteners. **Q-COAT UC™ Clear Coats** are **Environmentally Friendly** products that are low in HAP's – hazardous air pollutants and low in VOC's – volatile organic compounds.

QHF Environmentally Friendly Product.

APPLICATION:

1.

Safety:
Use only NIOSH approved respirators and personal protection equipment recommended for the product used.

Always review the MSDS – Material Safety Data Sheets before use.

2. **SURFACE PREPARATION:**

Suitable Surfaces:
All **Q-COAT UC™** Urethane Colors and **Q-COAT DC™** Display Colors. Follow all Technical Data Sheet recommendations prior to applying any **Q-COAT UC™** Clear Coat. Substrate and color coats should be prepared according to product instructions prior to any clear coating application.

3.

Newly Painted Surfaces:
The surface will be free of all oil, grease, dirt, dust, mill scale, rust, paint, oxide, corrosion products and any other foreign matter. Clean or degrease if necessary. Paint films cured over 24 hours, or sooner at elevated temperatures or when accelerator was added, should be dry sanded thoroughly with 400 to 600 grit before clear coating to insure proper inner coat adhesion.

New Plastic Surfaces:
For plastics, PVC or ABS type substrates, clean with **Q-SOLV™ CD4402™** or **Q-SOLV™ CD4414™** and then apply **Q-PRIM™ PP1010™** Specialty Plastic Adhesion Promoter. Always perform a cross hatch adhesion test before production run painting.

For modified acrylic, acrylic or polycarbonate clean with **Q-SOLV™ CD4402™** and then apply **Q-BASE™ PB0005™** or **Q-PRIM™ PP1010™.** Always perform a cross hatch adhesion test before production run painting. Refer to TDS information on **Q-PRIM™ PP1010™** Specialty Plastic Adhesion Promoter.

Previously Painted Aged Surfaces:
Clean with **Q-SOLV™** Approved Cleaners / Degreasers and scuff sand (400 grit to 600 grit) to produce a surface profile. Once cleaned, the surface will be free of all oil, grease, dirt, dust, loose paint, rust, oxide products or any other foreign matter. Always test for compatibility and lifting before production run painting.

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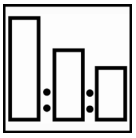
4. **GLOSS SELECTION OBTAINABLE:**

Gloss Level Clear Coat Selection:

Q-Coat™ UC0033™	High Gloss Clear
Q-Coat™ UC0035™	Semi – Gloss Clear
Q-Coat™ UC0037™	Low Gloss ADA Clear
Q-Coat™ UC0039™	Matte Clear

5. 

Mixing Procedure and Ratio:

Combine:

4 parts **Q-Coat UC™**	Clear of Choice
1 part **Q-ACTV UA™**	UA5000™ Activator
1 part **Q-SOLV UR™**	UR Series™ Reducer

Optionally add:
Up to ½ oz Accelerator per mixed quart for high gloss level clear
Up to 1 oz Accelerator per mixed quart for lower gloss level clears

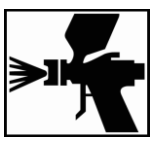
Stir until thoroughly blended.

Reducer and accelerator selections should be determined based on temperature, % relative humidity and job size.

6. **REDUCER SELECTION:**

Reducer / Accelerator Selections:

Q-SOLV™ UR1054™	Fast Reducer
Q-SOLV™ UR1056™	Medium Reducer
Q-SOLV™ UR1060™	Slow Reducer
Q-SOLV™ UR1062™	Extra Slow Reducer
Q-SOLV™ UR1094™	Accelerator – Pot Life Extender
Q-SOLV™ UR1099™	Accelerator
Q-SOLV™ UR1154™	Low VOC Fast Reducer
Q-SOLV™ UR1156™	Low VOC Medium Reducer
Q-SOLV™ UR1160™	Low VOC Slow Reducer
Q-SOLV™ UR1162™	Low VOC Extra Slow Reducer

7. 

Recommended Spray Equipment:

Gravity Feed:	1.3 - 1.4 mm
Siphon Feed:	1.6 - 1.8 mm
Pressure Feed:	1.0 - 1-4 mm

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8. **FILM PROPERTIES:** Apply first coat as a "tack coat" only, allow too "tack up" for 15 to 20 minutes. After first coat has properly "flashed off", apply next coat or coats to achieve 1.5 – 2.0 mils minimum dry film thickness, 2 coats minimum through recommended spray equipment. The use of wet and dry film thickness gauges and cross hatch adhesion testers are always recommended.

9. **DRY TIME:** Dry to handle at 75°F is 2 to 4 hours.

Dry to package and ship at 75°F is 24-48 hours minimum.

Application of vinyl graphics is 24–72 hours depending on curing conditions and type of vinyl.

NOTES:

All two component cross linking activation stops or significantly slows at temperatures below 60°F or 16°C. Applying coatings in these types of conditions will result in loss of gloss, poor film resistance, decreased performance, reduced chemical resistance and or improper curing.

Do not apply if temperature is below 60°F or above 110°F or if the surface temperature is within 5°F of the dew point.

Paint films cured over 24 hours, or sooner at elevated temperatures or when accelerator was added, should be dry sanded thoroughly with 400 to 600 grit before recoating to insure proper inner coat adhesion.

10. **PERFORMANCE PROPERTIES:**

Abrasion and mar / scratch resistance:	Excellent
Alkali resistance:	Excellent
Humidity resistance:	Excellent
Solvent, acid & salt resistance:	Excellent
UV fade resistance:	Excellent
Chalk resistance	Excellent
Self cleaning properties	Excellent

Always test surface preparation, primer and topcoat compatibility to determine acceptability before any production run.

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