

## Waterborne Coatings & UVC Coatings Product Guide



## Waterborne Coatings for Glass and Plastic Decorating

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Product	Description	Colors	Applications	Cure	Performance Characteristics and	Regulatory
				Schedule	Unique Features	
HYDROCRYL WBC 1000 GLOSS	Acrylic based waterborne thermoset gloss coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative glassware and single use containers	3-5 min Infrared 20-30 min Convection 380F	Economical and versatile application. High film hardness and extreme film clarity and DOI. Freeze thaw stable. Compatible with some rotary atomizers.	HAPs Free BPA Free Prop 65 Compliant
HYDROCRYL WBC 1500 FROST	Acrylic based waterborne thermoset matte coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative glassware and single use containers	3-5 min Infrared 20-30 min Convection 380F	Economical and versatile application. High film hardness. Compatible with some rotary atomizers.	HAPs Free BPA Free Prop 65 Compliant
HYDROTHANE WBC 2000 GLOSS	Urethane based waterborne thermoset gloss coating tint base for glass and ceramic decorating with enhanced performance properties for severe duty applications	All transparent and opaque pigment colors and most dye colors. High pigment loading capacity.	Decorative glassware, tile and ceramic for bath and exterior decoration, sublimation base, liquor and wine bottles rated for water immersion	3-5 min Infrared 10-30 min Convection 300-380F	Enhanced resistance to moisture and water immersion. Enhanced chemical resistance. Superior curing performance and dry to touch before cure. Optional UV radiation blocking feature while maintaining clarity, independent of color selection. Optional enhanced abrasion HP package can be incorporated for extreme face to face contact abrasion environments, such as automated filling and bottling applications. Extreme fast dry to touch.	HAPs Free BPA Free Prop 65 Compliant
HYDROTHANE WBC 2500 FROST	Urethane based waterborne thermoset matte coating tint base for glass and ceramic decorating with enhanced performance properties for severe duty applications	All transparent and opaque pigment colors and most dye colors. High pigment loading capacity.	Decorative glassware, tile and ceramic for bath and exterior decoration, sublimation base, liquor and wine bottles rated for water immersion	3-5 min Infrared 10-30 min Convection 300-380F	Enhanced resistance to moisture and water immersion. Enhanced chemical resistance. Superior curing performance and dry to touch before cure. Optional UV radiation blocking feature while maintaining clarity, independent of color selection. Optional enhanced abrasion HP package can be incorporated for extreme face to face contact abrasion environments, such as automated filling and bottling applications. Extreme fast dry to touch.	HAPs Free BPA Free Prop 65 Compliant

HYDROTHANE WBC 3000 GLOSS	Urethane based waterborne thermoset gloss coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative glassware, tile and ceramic, sublimation base, liquor bottles	3-5 min Infrared 10-30 min Convection 300-380F	Excellent chemical resistance, high film hardness and superior adhesion to glass and ceramic. Superior curing performance. Slower air dry and will not plug equipment, ideal for continuous process chain on edge production with mechanical or rotary atomizer electrostatic spray with indexing or line tracking.	HAPs Free BPA Free Prop 65 Compliant
HYDROTHANE WBC 3500 FROST	Urethane based waterborne thermoset matte coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative glassware, tile and ceramic, sublimation base, liquor bottles	3-5 min Infrared 10-30 min Convection 300-380F	Excellent chemical resistance, extreme transit abrasion burnishing and wear resistance, particularly against cardboard and other abrasive packaging. Superior curing performance. Slower air dry and will not plug equipment, ideal for continuous process chain on edge production with mechanical or rotary atomizer electrostatic spray with indexing or line tracking.	HAPs Free BPA Free Prop 65 Compliant
HYDRODUR WBC 4000	Epoxy Based waterborne thermoset gloss coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative Glassware, Tile and Ceramic, applications with sustained water immersion.	3-5 min Infrared 20-30 min Convection 380F	Extreme fast dry to touch with high scratch and burnishing resistance. Extreme moisture resistance and water immersion performance. Resists detergents and cleaning products.	HAPs Free
HYDRODUR WBC 4500	Epoxy Based waterborne thermoset matte coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative Glassware, Tile and Ceramic, applications with sustained water immersion.	3-5 min Infrared 20-30 min Convection 380F	Extreme fast dry to touch with high scratch and burnishing resistance. Extreme moisture resistance and water immersion performance. Resists detergents and cleaning products.	HAPs Free
HYDROCRYL WBC 5000	Acrylic Based waterborne thermoset gloss coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors. High pigment loading capacity.	Decorative glassware, tile and ceramic, liquor bottles	3-5 min Infrared 20-30 min Convection 380F	Faster dry to touch version of WBC 1000 with enhanced scratch and burnishing resistance and hot hardness. Excellent chemical resistance and economical cost.	HAPs Free BPA Free Prop 65 Compliant

HYDROCRYL WBC 5500	Acrylic Based waterborne thermoset matte coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors. High pigment loading capacity.	Decorative glassware, tile and ceramic, liquor bottles	3-5 min Infrared 20-30 min Convection 380F	Faster dry to touch version of WBC 1500 with enhanced scratch and burnishing resistance and hot hardness. Excellent chemical resistance and economical cost.	HAPs Free BPA Free Prop 65 Compliant
HYDROCRYL WBC 6000	Acrylic Based waterborne thermoset gloss coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative glassware, tile and ceramic, liquor bottles	3-5 min Infrared 20-30 min Convection 380-410F	Extreme chemical resistance and high hardness, burnishing, and abrasion resistance. Economical cost. Easy water cleanup. Slower air dry and will not plug equipment, ideal for continuous process chain on edge production with mechanical or rotary atomizer electrostatic spray with indexing or line tracking.	HAPs Free BPA Free Prop 65 Compliant
HYDROCRYL WBC 6500	Acrylic Based waterborne thermoset matte coating tint base for glass and ceramic decorating	All transparent and opaque pigment colors and most dye colors.	Decorative glassware, tile and ceramic, liquor bottles	3-5 min Infrared 20-30 min Convection 380-410F	Extreme chemical resistance and high hardness, burnishing, and abrasion resistance. Economical cost. Easy water cleanup. Slower air dry and will not plug equipment, ideal for continuous process chain on edge production with mechanical or rotary atomizer electrostatic spray with indexing or line tracking.	HAPs Free BPA Free Prop 65 Compliant
HYDROCURE UVC 1000 GLOSS	UV curable waterborne coating clear base	Most Pigment Colors	Decorative glassware, plastic and glass containers for cosmetic and personal care, exterior durable plastic	2 min IR Flash off, then UV cure in seconds	Low energy requirements and fast cure. Ideal for temperature sensitive substrates. Adhesion to glass as well as difficult plastics such as PET, HDPE, LDPE, and Polycarbonate. Dry to touch before curing reduces contaminant pickup associated with traditional UV cure coatings.	HAPs Free BPA Free Prop 65 Compliant
HYDROCURE UVC 1500 FROST	UV curable waterborne matte coating base	Most Pigment Colors	Decorative glassware, plastic and glass containers for cosmetic and personal care	2 min IR Flash off, then UV cure in seconds	Low energy requirements and fast cure. Ideal for temperature sensitive substrates. Adhesion to glass as well as difficult plastics such as PET, HDPE, LDPE, and Polycarbonate. Dry to touch before curing reduces contaminant pickup associated with traditional UV cure coatings.	HAPs Free BPA Free Prop 65 Compliant

<u>CUSTOM FORMULATIONS</u>: Call your representative for information about solvent free, solvent-based, and water-based UV cure, air-dry, or thermal-cure coatings for glass or plastic.

## Changing the Way You See the World

## Waterborne Coating Colorants for Glass, Ceramic, and Plastic Decorating

Schilling Inks and Coatings is proud to offer our line of WBT Water Based Tint pastes to meet our customers' needs. In addition to offering custom formulated colors, we offer our customers the ability to purchase tint bases and colorants separately and mix their own custom colors, allowing them to respond as quickly as possible to market needs and trends. Purchasing bulk quantities of base and colorant separately also saves money by eliminating costs and logistics associated with low volume colors as well as waste due to overproduction.

Description	Туре	Colorant Code
Transparent blue-shade red dye	Dye Solution	WBT200
Red transparent dye	Dye Solution	WBT228
Transparent orange dye	Dye Solution	WBT132
Transparent yellow dye	Dye Solution	WBT207
Blue shade Black dye solution	Dye Solution	WBT208
Opaque white pigment dispersion	Pigment Dispersion	WBT249
Opaque yellow shade red	Pigment Dispersion	WBT201
Transparent, high DOI dispersion of yellow shade red	Pigment Dispersion	WBT198
Transparent red	Pigment Dispersion	WBT212
Transparent blue-shade red	Pigment Dispersion	WBT216
Magenta-pink dispersion	Pigment Dispersion	WBT203
Transparent orange dispersion	Pigment Dispersion	WBT213
Transparent yellow dispersion	Pigment Dispersion	WBT202
Opaque yellow dispersion	Pigment Dispersion	WBT218
Transparent green dispersion	Pigment Dispersion	WBT205
Transparent blue dispersion	Pigment Dispersion	WBT196
Violet pigment dispersion	Pigment Dispersion	WBT197
Blue shade carbon black	Pigment Dispersion	WBT204
Brown shade carbon black	Pigment Dispersion	WBT227
Dark brown transparent	Pigment Dispersion	WBT210
Medium brown opaque	Pigment Dispersion	WBT217
Dark brown opaque	Pigment Dispersion	WBT214
Transparent red iron oxide	Pigment Dispersion	WBT229
Metallic flake paste	Pigment Dispersion	WBT239
Fluorescent Magenta	Pigment Dispersion	WBT250
Fluorescent Orange-red	Pigment Dispersion	WBT251