



NORTHERN
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A TOUCH OF GLASS

Coatings and Colorants Product Guide for Glass, Ceramic, and Plastic Decorating



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**Northern Coatings Touch of Glass ® Waterborne Coating Systems for Glass, Ceramic, and Plastic
Decorating**

| Product | Description | Colors | Applications | Cure Schedule | Performance Characteristics and Unique Features | Regulatory |
|----------------------------|--|---|--|--|---|---|
| Crystal Touch | Acrylic based waterborne thermoset coating tint base for glass and ceramic decorating | All standard transparent and opaque colors, 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. Robust in achieving final film appearance even over glass with cold end lubricant or other contaminants | Haps Free BPA Free Prop 65 Compliant |
| Crystal Touch G2 | Acrylic based waterborne thermoset coating tint base for glass and ceramic decorating. | All standard transparent and opaque colors, most dye colors | Decorative glassware and single use containers, liquor bottles | 3-5 min Infrared 20-30 min Convection 380F | Economical and versatile application, extreme fast dry to touch and compatible with both continuous chain on edge and manual transfer conveyor curing type processes. Outstanding wear-through abrasion resistance ideal for mechanical filling line performance. | Haps Free BPA Free Prop 65 Compliant |
| Crystal Touch Turbo | Acrylic based water reducible thermoset coating tint base for glass and ceramic decorating | All standard transparent and opaque colors, most dye colors | Decorative glassware and single use containers, liquor bottles | 3-7 min Infrared 20-30 min Convection 410F | High performance and durability with high film hardness and DOI. Easy handling and cleanup with pure water or 5% ammonia solution (no solvent needed). Ideal for electrostatic rotary atomizer application, can also be used with traditional mechanical air atomized or HVLP spray | Haps Free BPA Free Prop 65 Compliant |
| Ultra Touch | Urethane based waterborne thermoset 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 | High film hardness and superior adhesion to glass and ceramic with excellent clarity. Optional UV radiation blocking feature while maintaining clarity, independent of color selection. Superior curing performance and dry to touch before cure. | Haps Free BPA Free Prop 65 Compliant |
| Ultra Touch ICE | 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 | 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 enhanced abrasion package can be incorporated for extreme face to face contact abrasion environments, such as automated filling and bottling applications. Can be applied with rotary atomizer or traditional air atomized spray. | Haps Free BPA Free Prop 65 Compliant |
| Dura Touch | 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 | Reusable drinkware and items requiring dishwasher resistance | 3-5 min Infrared 10-30 min Convection 300-380F | Extreme moisture resistance and water immersion performance, fast dry to touch properties, easy application. Extreme hardness and abrasion resistance, even after prolonged moisture exposure. | Haps Free BPA Free Prop 65 Compliant |

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| Ultra Touch Magnum | Acrylic based waterborne thermoset coating tint base for glass and ceramic decorating. | All transparent and opaque pigment colors and most dye colors | Cosmetic bottles containing liquids with high alcohol or surfactant content | 3-5 min Infrared 10-30 min Convection 300-380F | Extreme chemical resistance against common ingredients in perfumes and lotions. Economical and versatile application. High film hardness and extreme film clarity and DOI. | Haps Free BPA Free Prop 65 Compliant |
| UV Touch Gloss | UV curable waterborne coating tint base | All transparent and most opaque 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 |

Northern Coatings Touch of Glass ® Waterborne Coating Colorants for Glass, Ceramic, and Plastic Decorating

Northern Coatings is proud to offer a wide range of colorants 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 | Type | Colorant Code |
|--|--------------------|----------------------|
| Transparent blue-shade red dye | Dye Solution | PS200 |
| Red transparent dye | Dye Solution | PS228 |
| Transparent orange dye | Dye Solution | PS132 |
| Transparent yellow dye | Dye Solution | PS207 |
| Blue shade Black dye solution | Dye Solution | PS208 |
| Opaque yellow shade red | Pigment Dispersion | PS201 |
| Transparent, high DOI dispersion of yellow shade red | Pigment Dispersion | PS198 |
| Transparent red | Pigment Dispersion | PS212 |
| Transparent blue-shade red | Pigment Dispersion | PS216 |
| Magenta-pink dispersion | Pigment Dispersion | PS203 |
| Transparent orange dispersion | Pigment Dispersion | PS213 |
| Transparent yellow dispersion | Pigment Dispersion | PS202 |
| Opaque yellow dispersion | Pigment Dispersion | PS218 |
| Transparent green dispersion | Pigment Dispersion | PS205 |
| Transparent blue dispersion | Pigment Dispersion | PS196 |
| Violet pigment dispersion | Pigment Dispersion | PS197 |
| Blue shade carbon black | Pigment Dispersion | PS204 |
| Brown shade carbon black | Pigment Dispersion | PS227 |
| White opaque pigment | Pigment Dispersion | PS249 |
| Dark brown transparent | Pigment Dispersion | PS210 |
| Medium brown opaque | Pigment Dispersion | PS217 |
| Dark brown opaque | Pigment Dispersion | PS214 |
| Transparent red iron oxide | Pigment Dispersion | PS229 |