



Quaker Color

A Step Ahead...

Welcome to Quaker Color Leather Finishing Products

As a Specialty Chemical Company **Quaker Color** offers a variety of finishing products to the International Leather Industry. We are leaders in automotive finishes in the USA, and have a strong presence in North American countries, Latin America and Europe. More recently we have expanded our business into Asia.

At **Quaker Color**, we are passionate about the leather business. Our polyurethane dispersion and up-gradation technologies have revolutionized the leather finishing processes - where critical properties are imparted to leather, and where the appearance of animal hide or skin is significantly changed and enhanced improving its color, surface look, touch, feel, resistance, softness and toughness.

Our aim is to upgrade and improve the quality of leather finishes for all end use applications - whether it is for automotive upholstery, furniture upholstery, shoe upper leather, garment leather, bag leather or leather goods.

At **Quaker Color** we are committed to innovating and developing environmentally friendly water base products with superior performance and better cost advantage.

The technologies and products we offer for leather finishes include:

Q-Color: Pigments- These pigments impart brilliant color, excellent covering and leveling capacity, improved accuracy in color matching, good wet rub and dry rub resistance, excellent water resistance, light fastness and excellent heat resistance.

Q-Upgrade: Up-gradation system- High solid up-gradation product used for repairing open scratches, defects and scars on the surface of leather, the leather surface becomes evened by buffing prior to finishing. It provides outstanding adhesion, flexibility and covering even at the deeper and wider damaged areas of the leather. Excellent product for up-gradation of leather finishes.

Poseidon Binder: Acrylic resin binder- Acrylic polymer for aqueous base coats. Imparts very good adhesion, fill, coverage, solvent resistance, low temperature flexibility, cold crack resistance, toughness with softness, plate release, print retention, wet and dry rub fastness.

Poseidon Compact: Compact base coat binder- Unique compact base coat, imparts exceptional coverage and outstanding physical properties in terms of flexibility, abrasion resistance, water resistance, cold crack resistance, embossing effect, good plate release, excellent print definition, retention and excellent milling effect.

Compact one coat finishing system- Unique finishing system for automotive and upholstery leathers. It imparts exceptional coverage and outstanding physical

properties in terms of flexibility, abrasion resistance, water resistance and cold crack resistance. Entire finishing can be done in one coat.

Poseidon Urethane: Polyurethane dispersions- High performance products, that impart excellent adhesion, film toughness, flexibility, yellowing resistance, film clarity, plating properties, wet rub resistance, abrasion resistance and hot ironing resistance. Can be crosslinked to further enhance water and stain resistance.

Q-Add: Silica based filler/duller- Resin free silica based duller used to reduce gloss, increase coverage and improve the stacking, embossing and handling properties of water base polymers and base coats.

Protein Binder- General purpose protein binder to improve gloss and reduce tackiness.

Wax- High Solid, High Efficiency plate releasing wax, improves the wet rub properties and surface feel. For use in base and topcoats.

Thickeners- Can be used effectively to control viscosity and flow of base coat and topcoat formulations.

Flow agent- To be used as a leveling and wetting aid for water borne coatings on difficult to wet or non-absorbing substrates to reduce the surface tension of the water based coating.

Defoamer- Very effective for eliminating bubbles in roll base coats and foam in pigment dispersions, spray base coats, and topcoats.

Matting agent- A high efficiency flattening agent of unique chemistry, for high opacity base coats and topcoats without over loading the grain causing harsh and course feel, increases opacity and plate release and reduce gloss. Especially beneficial in filling smooth and corrected grain finishes.

Poseidon Top: Aqueous topcoats- Acrylic/ Polyurethane topcoats from glossy to dull. Imparts exceptional coverage and outstanding physical properties in terms of flexibility, abrasion resistance, break, wet rub, cold crack resistance, surface feel, light fastness, heat fastness and excellent flow properties.

Q-Feel: Touch and feel modifier- A unique feel additive for use exclusively in base coat and topcoats mix. Imparts a very pleasant feel of a silky and waxy nature.

Poseidon Linker: Crosslinkers- Compatible with most acrylic and polyurethane binder systems; it significantly improves water and solvent resistance, toughness, abrasion resistance, block resistance, flexibility and long term durability of the coating inclusive of UV outdoor exposures.

Products at a Glance

Pigments

Product	Base	Charge	Appearance	Total Solids %	Uses / Benefits
Q-Color White 8-W-3HS	Automotive grade Titanium Dioxide	Anionic	White	49±3	<p>Q-Color pigments are produced with advanced technology; they are highly concentrated and solvent free.</p> <p>Q-Color pigments are aqueous dispersions of selected high quality organic and inorganic pigments of extremely micro fine particle size, indicative of their extremely high tintorial strength and color clarity.</p> <p>Q-Color pigments are low viscosity liquids with excellent shelf life stability that can be easily handled, dosed and poured. Due to their well-balanced properties, the natural leather character, smooth feel and grain patterns are maintained.</p> <p>Q-Color pigments impart outstanding properties which are as follows:</p> <ul style="list-style-type: none"> • Good dispersion • Brilliant color • Excellent covering and leveling capacity • Improved accuracy in color matching • Good wet rub and dry rub resistance • Excellent water resistance • Light and migration fastness • Excellent heat resistance • They deliver clean shades of high brilliancy and spreading capacity • Excellent compatibility with all types of aqueous binders • Suitable for use in base coat and topcoat either alone or in combination with other Q-Color Pigments • Suitable for use in Automotive and Furniture Upholstery, High quality shoe upper, Garment and Leather goods
Q-Color Black 8-BK-47	Automotive grade Black shading Pigment	Anionic	Black	9±3	
Q-Color Black 8-BK-48	Automotive grade Jet Black Pigment	Anionic	Jet Black	16±3	
Q-Color Black 8-BK-60 J	Automotive grade very Jet Black Pigment	Anionic	Jet Black	13±3	
Q-Color Brown R 8-R-17N	Automotive grade Iron Oxide	Anionic	Brown	37±3	
Q-Color Red O 8-R-8	Automotive grade Quinacridone	Anionic	Red	23±3	
Q-Color Red 8-R-5	Automotive grade Iron Oxide	Anionic	Red Oxide	51±3	
Q-Color Red 8-R-29	Automotive grade Iron Oxide	Anionic	Red	36±3	
Q-Color Red D 8-R-14	Automotive grade Specialty Red	Anionic	Red	17±3	
Q-Color Red 8-R-26N	Automotive grade Quinacridone	Anionic	Red	22±3	
Q-Color Burgundy 8-R-9	Automotive grade Quinacridone	Anionic	Burgundy	24±3	
Q-Color Green 8-G-7	Automotive grade Phthalo	Anionic	Green	24±3	
Q-Color Blue G 8-BE-6	Automotive Grade Phthalo	Anionic	Blue	24±3	
Q-Color Blue R 8-BE-12	Automotive Grade Phthalo RS	Anionic	Blue	24±3	
Q-Color Ochre 8-Y-4	Automotive grade Iron Oxide	Anionic	Red Oxide	46±3	
Q-Color Yellow 8-Y-16	Automotive grade Special azoic	Anionic	Yellow	22±3	
Q-Color Yellow 8-Y-11	Automotive grade Isoindolinone	Anionic	Yellow	26±3	
Q-Color Lemon 8-Y-20	Automotive grade Isoindolinone	Anionic	Yellow Lemon	21±3	
Q-Color Orange 8-Y-25	Automotive grade Benzimida zolone	Anionic	Orange	17±3	
Q-Color Red F * 8-R-19	<i>Finest grade Azoic Red</i>	<i>Anionic</i>	<i>Red</i>	<i>26±3</i>	

Finishing Up-gradation System

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Q-Upgrade TKP-1187	High Fill Binder	7.0-9.0/ Soft	White Paste	38±2	A high solid, high viscosity up-gradation product used for repairing open scratches and scars on the surface of leather. Can be applied by spatula or trowel on the damaged area of the crust. After the excess is removed: the leather surface becomes evened by buffing prior to finishing. TKP-1187 provides outstanding adhesion and flexibility, even at the deeper and wider damaged areas of the leather. The subsequent adhesion of the finish is excellent, as it becomes an integral part of the finish. Suitable for up-gradation of all types of leather.
Q-Upgrade TKP-1006	Blend of High grade filler with Co-polymer	7.0-9.0 / Medium Soft	White Paste	32±2	Highly concentrated low cost up-gradation system that can be used to improve coverage, aesthetics and up-grade cutting yields. Delivers very soft and tight leather with an improved hand along with excellent coverage. TKP-1006 possesses excellent adhesion and flexibility to both un-crosslinked and crosslinked base coats. Typically applied by roller coater or hand spatula methods. Can be used for Full Grain or Corrected Grain leather finishes with excellent cut resistance and embossing retention, can be embossed after up-grade coat or after up-grade and first base coat. Suitable for up-gradation of all types of leather to increase the final yield and cutting value of leather.
Q-Upgrade FB-550	Cross-linkable Froth binder	8.0-9.5 / Soft	Whitish Liquid	40±2	A tough compact, base coat up-gradation system that provides excellent coverage, good break and unique print retention. At the same time, produces a soft finish, which meets all the upholstery and automotive specifications without sacrificing the aesthetics and softness of the leather. Due to its unique covering power, requires a relatively small amount of pigment, which contributes to an improved cost base coating system. Can be applied by roller coater or airless spray. Typically only one base coat is required to achieve full coverage. For improved properties can be crosslinked with Poseidon Linker AM-636 . Suitable for all types of leather finishes.
Q-Upgrade JL-773	Froth binder	8.0-10.0/ Very Soft	Whitish Liquid	40±2	Highly concentrated, low cost Froth Copolymer that can be blended with other binders of choice, depending on requirements, to improve coverage, aesthetics and up-grade cutting yields. When blended with appropriate binders, delivers very soft and tight leather with an improved hand along with excellent coverage. Also imparts superior embossing retention on full grain and heavy buffed leathers. Possesses excellent adhesion and flexibility both un-crosslinked and crosslinked. Can be applied by either spray or roller coater operation. Suitable for all types of leather finishes.
Q-Upgrade TKP-1192	High Fill Pre-base Binder	7.0-9.0 Soft	Whitish Liquid	36±2	A high solid, high viscosity, pre-base upgrade product that can be used for repairing defects on the surface of leather. TKP-1192 is typically applied by roller coater on corrected or full grain leathers to enhance aesthetics and increase cutting yields. TKP-1192 is stable in the drum and maintains a thick creamy consistency with no separation or cakey biscuit formation. Due to its chemical composition and high solids TKP-1192 allows for minimal shrinkage after drying and provides outstanding adhesion and flexibility.

Aqueous Basecoat Acrylic Resin Binder

Product	Base	PH/ Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Binder BS-153N	Acrylic resin emulsion	7-9.0 / Very Soft	Milky Liquid / Anionic	40±2	Very soft acrylic base coat binder with very low Tg that imparts excellent balance of properties, coverage, water resistance, very good adhesion, tight grain, high wet and dry flex, good print retention, plate release, and cold crack resistance. Leather base coated with this binder retain its inherent softness and drape characteristics, forming an excellent substrate for further finishing operations. Suitable for finishing all types of leather.
Poseidon Binder BS-490	Acrylic resin emulsion	8- 10.0 / Very Soft	Milky Liquid / Anionic/ Nonionic	39±2	High solid, very soft acrylic binder, relatively dry to touch with very low Tg, excellent penetration and adhesion. It imparts excellent print retention and definition, good plate release, low surface tack, excellent fill and coverage and very good resistance to “ cut through ” during embossing. Suitable for all types of leather finishes.
Poseidon Binder AB-668	Acrylic resin emulsion	6.5-8.5 / Soft	Milky Liquid / Anionic	40±2	A fine particle size acrylic binder with a low Tg and high degree of flexibility, adhesion and water resistance. Poseidon Binder AB-668 produces very soft dry to the touch films and is especially suitable for all types of upholstery leather,
Poseidon Binder AB-687	Acrylic resin emulsion	8.0-10 / Soft	Milky Liquid / Anionic/ Nonionic	39±2	A high solid, very soft acrylic binder of very low Tg, excellent penetration and adhesion. This universal polymer with an ultra fine particle size imparts tighter break to full grain and corrected grain leathers. It is also used as soft, tough, acrylic emulsion for base coat application suitable for finishing all types of leather.

Aqueous Basecoat Acrylic Resin Binder (Continued...)

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Binder AB-694	Acrylic resin emulsion	8.0-10 / Soft	Milky Liquid / Anionic / Nonionic	40±2	Soft, tough acrylic polymer with outstanding physical properties in terms of flexibility, cold crack, abrasion and block resistance. It can be used in combination with Poseidon Urethane JK-233 to produce automotive base coats that can be milled and embossed. Due to exceptional toughness and low tack properties, base coats with excellent adhesion and print retention properties can be formulated. To further enhance adhesion and water resistance it can be crosslinked.
Poseidon Binder AB-1014	Acrylic resin emulsion	7.5-9.5 / Soft	Milky Liquid / Anionic	35±2	Soft, but very tough acrylic engineered to impart excellent covering, very low surface tack, excellent plate release, cut through, print definition and retention, and heat yellowing resistance. It has very good behavior when embossed at very high temperature and pressure and imparts outstanding cold and wet flex properties. An excellent base coat for automotive, furniture, shoe upper, splits and leather goods. Suitable for all types of high specification leather finishes.
Poseidon Binder AB-1029	Acrylic resin emulsion	7.0-9.0 / Soft	Milky Liquid / Anionic	35±2	Soft and tough acrylic binder designed to impart excellent covering with low tack, filling, plate release, print retention and definition, resistant to cut through on high temperature and high pressure embossing to base coats. Suitable for all types of corrected grain and full grain leather finishes. An ideal product for Automotive, Furniture Upholstery, Shoe Leather and Leather Goods.

High Performance Compact Base Coat Binder

Poseidon Compact BC-820	Unique blend of Polyurethane and Acrylic polymers	7.5- 9.5 / Soft	Milky Liquid	27±2	Unique compact base coat that imparts exceptional coverage, outstanding physical properties in terms of flexibility, abrasion resistance, water resistance, cold crack resistance, embossing effect, good plate release, excellent print definition and retention, and excellent milling effect. Can be applied by roll coat or spray coat application. For higher performance crosslinker can be added. When used in concert with Q-Color pigments and the Poseidon Top AT-821 , one pass application can be accomplished by air assisted airless spray on most leathers. User friendly product suitable for all types of leathers finishes.
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High Performance Compact Base Coat Binder (Continued...)

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Compact AB-1020	Unique blend of Poly-urethane Acrylic and additives	7.5-9.5 / Soft	Milky Liquid	26±2	A unique compact base coat for automotive leathers with exceptional milling, embossing, and aesthetic properties. Outstanding physical properties in terms of flexibility, abrasion resistance, water resistance, and cold crack resistance. It can be applied by roll coat or spray coat application. For higher performance crosslinker can be added. When used in concert with Q-Color pigments one pass applications can be accomplished by air assisted airless spray on most leathers. User friendly product suitable for all types of leathers. Based on advanced acrylic and polyurethane technology, it yields surface films that exhibit very low surface tack, superb plate release, excellent print retention and high resistance to embossing plate "cut through". The hold out characteristics of the product results in superior fill and coverage. Base coat formulated with it display good resistance to wet rubbing and excellent flex performance.
Poseidon Compact AB-870	Unique blend of Poly-urethane and Acrylic polymers	7.0 8.0 / Soft	Milky Liquid	26±2	A unique compact base coat for automotive leathers with exceptional milling, embossing, and aesthetic properties. Outstanding physical properties in terms of flexibility, abrasion resistance, water resistance, and cold crack resistance. It can be applied by roll coat or spray coat application. For higher performance, crosslinker needs to be added. When used in concert with Q-Color pigments one pass application can be accomplished by air assisted airless spray on most leathers. User friendly product suitable for all types of leathers. Based on advanced acrylic and polyurethane technology, it yields surface films that exhibit very low surface tack, superb plate release, excellent print retention and high resistance to embossing plate "cut through". The hold out characteristics of the product results in superior fill and coverage. Base coat formulated with it display good resistance to wet rubbing and excellent flex performance and is useful for up-grading low quality full grain leathers. Suitable for all types of leather finishes.

Compact One Coat Finishing System

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Compact OC-754	Unique compact Poly-urethane dispersion	8.5-9.5 / Soft	Whitish Liquid	24±2	A compact ONE COAT system for automotive and upholstery leathers. It imparts exceptional coverage and outstanding physical properties in terms of flexibility, abrasion resistance, water resistance and cold crack resistance. It is formulated to a gloss level typical for lower gloss programs. When used in concert with Q-Color pigments and Poseidon Linker AM-636 crosslinker, high add on one or two pass applications can be accomplished by air assisted airless spray on most leathers. For most full grain constructions one spray application is sufficient to pass even the most severe automotive abrasion requirements without sacrificing aesthetics. For heavy buffed leathers roll base or sealer coat is advisable. Embossing, grain retention, and color control of the system after final processing is typically better than multi coat systems.

Polyurethane Binder

Poseidon Urethane JK-691	Aqueous Poly-urethane dispersion	7.0-10 / Very hard	Clear Liquid Anionic	34±2	Very hard, aqueous aliphatic lightfast polyurethane polymer with excellent abrasion and stain resistance. Due to its extremely high tensile strength and high gloss, it is well suited as an additive resin to improve the abrasion resistance and toughness of automotive topcoats. It imparts good film toughness, smoothness, good flexibility, excellent yellowing resistance, film clarity, plating properties, wet rub properties, hot ironing resistance and shear stability. Can be crosslinked to further enhance water and stain resistance. Suitable for use in base coat and topcoats for all types of leather finishes.
Poseidon Urethane JK-230	Aqueous Poly-urethane dispersion	8.0-10 / Hard	Clear Liquid / Anionic	38±2	A very tough aliphatic lightfast polyurethane polymer with excellent adhesion and abrasion resistance, it can be crosslinked with isocyanate or aziridine based crosslinkers to further enhance water and stain resistance. Can be used as a primary binder to formulate tough and flexible topcoats with high melt points. Imparts excellent film toughness, smoothness, flexibility, yellowing resistance, film clarity, plating properties, wet rub properties and hot ironing resistance. Offers a wide balance of properties making it suitable for all types of leather finishes.
Poseidon Urethane DM-831	Aqueous Poly-urethane dispersion	7.0-9.0 / Soft	Milky Liquid / Anionic	34±2	Inherently dull, solvent free , lightfast polyurethane resin with exceptional physical properties in terms of abrasion resistance, flexibility and water resistance. Can be used in base coat or topcoat formulations to produce low gloss coatings with soft touch and good surface handle without the need for external dulling agents. Performance can be enhanced by the addition of crosslinker. Automotive topcoats prepared with Poseidon Urethane DM-831 exhibit excellent flow and surface feel properties and wet crock resistance. Suitable for all types of leather.

Polyurethane Binder (Continued...)

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Urethane JK-535	Aqueous Poly-urethane dispersion	8.0-10 / Soft	Clear Liquid / Anionic	38±2	Tough water based polyurethane binder imparts excellent physical properties in terms elongation, light fastness, water resistance, toughness and scuff resistance. Due to its unique properties it can be used in base coats or topcoats to improve physical properties and hand feel. Imparts excellent film toughness, smoothness, flexibility, yellowing resistance, film clarity, embossing properties, wet rub properties and good shear stability. It can be used as a primary binder for all types of leather finishes.
Poseidon Urethane AB-90	Aqueous Poly-urethane dispersion	7.0-9.0 / Very Hard	Clear Liquid / Anionic	33±2	A very hard aqueous lightfast polyurethane polymer with excellent chemical, abrasion and stain resistance. When properly formulated Poseidon Urethane AB-90 also offers excellent gloss. Poseidon Urethane AB-90 is well suited for a variety of coating applications. Typical application is for automotive, furniture, shoe leather and leather goods. Poseidon Urethane AB-90 can be crosslinked with Poseidon Linker AM-636XL to further enhance chemical, water and stain resistance, block resistance and wear properties.
Poseidon Urethane NE-721	Aqueous Poly-urethane dispersion	7.0-9.0 / Medium hard	Clear Liquid / Anionic	33±2	Aqueous medium hard, aliphatic lightfast polyurethane polymer with excellent abrasion and stain resistance. Due to extremely high tensile strength and toughness it imparts formulating latitude, good hot ironing performance, non-yellowing, very good wet rub support, embossing properties, chemical resistance, and good block resistance. It can be crosslinked with Poseidon Linker AM-636 to further enhance performance properties. It is suitable for use in base coat and topcoats for all types of leather finishes.
Poseidon Urethane JK-233	Aqueous Poly-urethane dispersion	8.0-10.0 / Soft	Hazy Liquid / Anionic	38±2	Lightfast aliphatic polyurethane binder that can used in base coat and topcoat applications for upholstery and high quality shoe leathers. It produces tough coatings with soft handle and exceptional physical properties. Imparts soft and flexible finish with good water resistance and Taber abrasion properties. Typically it can be used in combination with acrylics to improve embossibility and scuff resistance or in topcoats as an additive binder.

Polyurethane Binder (Continued...)

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Urethane JK- 685	Aqueous Poly-urethane dispersion	7.0-9.0 / Very Soft	Hazy Liquid / Anionic	35±2	Lightfast polyurethane binder used in base coats to improve the adhesion on difficult to adhere crusts such as upholstery, garment and gloving. Imparts excellent film toughness, smoothness, flexibility, filling coverage, yellowing resistance, film clarity, plating properties, wet rub properties, good hot ironing resistance and shear stability. Can be used as a primary binder for all types of leather. In addition to the adhesion promoting properties, it can be used in dilute solution as a polishing and impregnating agent especially on full grain leathers. Due to its good water resistance properties it can be used as a feel additive in topcoat formulations. Suitable for all types of leather finishes.
Poseidon Urethane DM-832	Aqueous Poly-urethane dispersion	7.0-9.0 / Soft	Milky Liquid / Anionic	50±2	Very high solids aliphatic polyurethane binder that can be used in base or topcoat applications for upholstery leather. It is solvent free and produces tough, lightfast coatings with a soft hand feel and exceptional physical properties. Although Poseidon Urethane DM-832 is soft and flexible, it still exhibits good water resistance and Taber abrasion properties. It can also be used with Poseidon Binder and Poseidon Urethane DM-831 to improve softness and coverage of upholstery base coats.
Poseidon Urethane DM-1010	Poly-urethane dispersion	8.0-10 / Medium Hard	Clear Liquid / Anionic	34±2	Poseidon Urethane DM-1010 is an NMP free aliphatic lightfast polyurethane binder with exceptional hydrolysis and Bally flexing properties. Poseidon Urethane DM-1010 will improve the toughness and flexibility of base coat films without adversely affecting softness. Poseidon Urethane DM-1010 has good filling and coverage characteristics and can be used alone or in combination with acrylic or polyurethane resins to produce embossable base coats and topcoats with exceptional room temperature and cold Bally flexing properties. The physical properties of Poseidon Urethane DM-1010 can be further enhanced with the addition of Poseidon Linker AM-636 .
Poseidon Urethane TK-701U	Aqueous aromatic poly-urethane dispersion	6.0-8.0 / Very Soft	Amber Liquid / Anionic	24±2	Very soft aromatic polyurethane dispersion with outstanding physical properties. Imparts excellent adhesion, high flexibility, and cold crack resistance. Due to very fine particle size and exceptional penetration it can also be used as an initial sealer coat to promote adhesion without stiffening the leather. Can be crosslinked with Poseidon Linker AM-636 to further enhance adhesion and water resistance. It can be used for an adhesion base coat for difficult to adhere leather crust surface. Suitable for all types of leather finishes.

Filler

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Q-Add AD-595	Resin free Silica duller	7.0-9.0	Whitish Liquid	21±2	A resin free, silica based duller used to reduce gloss, increase coverage and improve the stacking, embossing and handling properties of water base polymers and base coats. Recommended use is 5-10% of total formula weight. Q-Add AD-595 is not recommended for use in topcoats. Matting agent filler that increases opacity and thereby imparts excellent covering, plate release and reduced gloss. It is especially beneficial in filling smooth, corrected grain finishes. High levels can be used, but limits should be determined by physical testing. It helps in hiding defects of leather surface. Can be used for all types of leather finishes.

Protein Binder

Q-Add PB-1032	Fine Quality Casein	8.0-10/ Medium Soft	Amber Liquid	13±2	Q-Add PB-1032 forms slightly hazy medium hard transparent film with good gloss and smooth touch. Improves gloss of the finish and helps in reducing tackiness on hot plating and embossing. Imparts good filling effect with good covering and improves scuff resistance with good feel. Can be used along with acrylic and polyurethane dispersions for all types of Full Grain and Corrected Grain leather finishes.
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Waxes

Q-Add AW-26	Fine Quality Synthetic wax	6.0-8.0 / Soft	Whitish Liquid / Anionic	47±2	High solid, high efficiency plate releasing wax for use in base and topcoats. Q-Add AW-26 improves the wet rub properties of the finish and does not detract from the flexibility and abrasion resistance of the base coat. When used in leather finishes it improves fullness, handle and smoothness of leather surface. Imparts natural and nice warm handle, level absorption, and improves filling and hot plating properties of base formulations. Suitable for use in all types of leather finishes.
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Thickeners

Q-Add AM-71	Based on thixotropic	3.5-5.5	Whitish Liquid	15±2	An alkali swellable, thixotropic type of thickener for viscosity control of all coatings. It is activated at lower pH range than conventional acrylic thickeners; therefore it imparts better stability to the mixes by minimizing pigment flocculations and color drift of the formulation. Can be used either on its own or in combination with Q-Add AM-80 for a low shear/ high shear balance of viscosity for roller coat applications. The water resistance of the coating is affected to a lesser extent than other types of thixotropic thickeners.
Q-Add AM-75	Rheology modifier	3.5-5.5	Whitish Liquid	9±2	A unique product that combines the properties of an alkali swellable and associative thickener in one product. Can be used effectively to control viscosity and flow of base coat and topcoat formulations. Q-Add AM-75 is activated at a lower pH range than conventional acrylic thickeners; therefore it imparts better stability to the mixes by minimizing pigment flocculation and color drift of the formulation. Can be used either alone or in combination with Q-Add AM-80 for a low shear/ high shear balance of viscosity for roller coat applications. The water resistance and physical properties of the final coatings are affected to a lesser extent than other types of competitive thickeners.
Q-Add AM-80	Hydrophobic Chemistry	N.A	Trans-lucent Liquid	32±2	A Rheological additive based on a new hydrophobic chemistry different from the ethoxylated urethane thickeners. Q-Add AM-80 provides efficient thickening independent of pH and maintains its viscosity under high shear. Q-Add AM-80 is designed for roller coater or other high shear applications but it has proven to be very useful in base coat and color coat airless and air-assisted spray applications.

Rheology Modifier- Flow Agent

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Q-Add BS-088	Based on Fluoro surfactants	6.0-8.0	Clear Liquid	5.0±2	A flow aid package based on fluorosurfactants, to be used as a leveling and wetting aid for water borne coatings on difficult to wet or non-absorbing substrates. Used at low levels of 1-4% will reduce the surface tension of the water based coating to the low twenties dynes/cm surface tension.

Rheology Modifier- Defoamer

Q-Add AF-715	Unique Com-position	N/A	Amber Liquid	95±2	A unique defoamer with Zero VOC for use in aqueous base coats and topcoats. Due to its unique structure, Q-Add AF-715 is less likely to cause surface defects such as fisheyes or pinholes. Q-Add AF-715 is a very effective defoamer for eliminating bubbles in roll base coats and foam in pigment dispersions, spray base coats, and topcoats. Typical use levels are 0.1 to 0.5%. Care should be taken not to exceed levels especially in topcoats.
Q-Add BS-271	Silicone based chemistry	6.0-8.0	Milky Liquid	36±2	A defoamer package based on silicone chemistry for use in aqueous base coats and topcoats. Because of its unique chemistry and structure, Q-Add BS-271 is less likely to cause surface defects such as fisheyes or pinholes. Q-Add BS-271 is also an effective defoamer for eliminating bubbles in roll base coats and foam in pigment dispersions. Typical usage levels are 0.1 to 0.25%. Care should be taken not to exceed these levels.

Matting Agent / Duller

Q-Add AD-35S	Unique Matting chemistry	8.0-10.0	Milky Liquid	15±2	A high efficiency flattening agent of unique chemistry, which results into high opacity base coats and topcoats without overloading the grain causing harsh and course feel, increases opacity, plate release and reduced gloss. Especially beneficial in filling smooth and corrected grain finishes. Flattening agent Q-Add AD-35S is suitable for use in water topcoat applications with all types of emulsions and other water based resins.
Q-Add BS-306	Silica base Flattening agent	8.0-10.0	Trans-lucent	10±2	High efficiency silica based flattening agent. Suitable for use in all water based topcoats. Flattening agent Q-Add BS-306 imparts a smooth surface feel, exceptional clarity and excellent gloss control in water base topcoats. At a 60-degree gloss to 2.5 or less, the finish remains clear, resulting in vivid colors and jet blackness. Imparts good clarity at lowest gloss levels. Maximum resistance to stress whitening and longer pot life at all temperatures. When used in combination with the Poseidon Binder AB-Series of polyurethane resins, a variety of gloss levels can be achieved with good physical properties.

Compact Topcoat - Dull

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Top AT-821	Unique Poly-urethane polymer	7.5-9.5 / Soft	Whitish Liquid	25±2	Imparts exceptional coverage and outstanding physical properties in terms of flexibility, abrasion resistance, Taber resistance, break, wet rub, cold crack resistance, light fastness, heat fastness and excellent flow properties. When used as a topcoat, low gloss systems with excellent color clarity can be achieved. When used in concert with Q-Color pigments and Poseidon Linker AM-636 crosslinker, high add on one or two pass applications can be accomplished by air assisted airless spray on most leathers. For most full grain constructions one spray application is sufficient to pass even the most severe automotive abrasion requirements without sacrificing aesthetics. For heavy buffed leathers Poseidon Top AT-821 can be used in a tandem roll coat or spray application of Poseidon Compact BC-820 base coats. Embossing, grain retention, and color control of the system after final processing is typically better than multi coat systems. Suitable for all types of leather finishes.
Poseidon Top AT-901	Unique Poly-urethane polymer	7.0-9.0 / Soft	Whitish Liquid	25±2	Imparts toughness, excellent cold crack resistance, high flexibility, soft surface feel, light fastness, heat fastness and outstanding physical properties in terms of flexibility, and abrasion resistance. When used in concert with Q-Color pigments and Poseidon Linker AM-636 crosslinker, high add on one or two pass applications can be accomplished by air assisted airless spray on most leathers. To adjust gloss higher Poseidon Urethane JK-702 or JK-535 can be added. For most full grain constructions one spray application is sufficient to pass even the most severe automotive abrasion requirements without sacrificing aesthetics. For heavy buffed leathers Poseidon Top AT-901 can be used in a tandem roll coat or spray application of Poseidon Compact BC-820 / or AB-870 base.

Topcoat

Poseidon Top AT-905	Unique Poly-urethane polymer	7.0-9.0	Hazy Liquid	24±2	Imparts toughness, excellent Taber resistance, cold crack resistance, light fastness, heat fastness and good flow out and outstanding physical properties in terms of flexibility, abrasion resistance, water resistance and cold crack resistance. When used as clear topcoat low gloss systems with excellent color clarity can be achieved. When used in concert with Q-Color pigments and Poseidon Linker AM-636 crosslinker, high add on one or two pass applications can be accomplished by air assisted airless spray on most leathers. To adjust higher gloss Poseidon Urethane JK-702 or JK-535 can be added. For most full grain constructions one spray application is sufficient to pass even the most severe automotive abrasion requirements without sacrificing aesthetics. For heavy buffed leathers Poseidon Top AT-905 can be used in a tandem roll coat or spray application of Poseidon Compact BC-820 / or AB-870 base coats. Embossing, grain retention, and color control of the system after final processing is typically better than multi coat systems. Suitable for all types of leather finishes.
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Topcoat – Duller

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Top BS-100	Acrylic / Poly-urethane Co-polymer	8.0-10	Whitish Liquid	34±2	High solid dull binder for topcoats that can be used in any combination with Poseidon Urethane JK-702 to provide a variety of degrees of dulling. Poseidon Top BS-100 is bound sufficiently to provide good topcoat film properties without sacrificing the performance characteristics of the top. It is crosslinkable with Poseidon Linker AM-636 for improved solvent resistance and toughness and it is compatible with Q-Color pigments for pigmented topcoats and also compatible with Q-Feel for modifying the feel of the leather. It forms continuous dry films characterized by high tensile strength, flexibility, excellent yellowing resistance, film clarity, good plating properties, and good shear stability. Suitable for all types of aqueous finishes.
Poseidon Top BS-566	Acrylic / Poly-urethane Co-polymer	7.0-9.5	Whitish Liquid	34±2	High solid dull binder for topcoat use, it can be used in any combination with Poseidon Urethane JK-535 to provide a variety of degrees of dulling. Poseidon Top BS-566 is bound sufficiently to provide good topcoat film properties, without sacrificing the performance characteristics of the top. When used in combination with Poseidon Urethane JK-535 binder, topcoats with exceptional flow, hand feel and physical properties can be formulated. Is compatible with Q-Color pigments for pigmented topcoats and also compatible with Q-Feel for modifying the feel of the leather. It can be cross-linked with Poseidon Linker AM-636 for improved solvent resistance and toughness. Forms continuous dry films characterized by high tensile strength, flexibility, excellent yellowing resistance, excellent film clarity, good embossing properties, hot ironing resistance and good shear stability. Suitable for all types of aqueous finishes.
Poseidon Top AT-767	Acrylic / Poly-urethane Copolymer	7.0-9.0	Whitish Liquid	34±2	High solids dull binder for topcoats that can be used in any combination with Poseidon Urethane JK-535 to provide a variety of degrees of dulling. Poseidon Top AT-767 is bound sufficiently to provide good topcoat film properties, without sacrificing the performance characteristics of the top. When used in combination with Poseidon Urethane JK-535 binder, topcoats with exceptional flow, hand feel and physical properties can be formulated. It is compatible with Q-Color pigments for pigmented topcoats and also compatible with Q-Feel for modifying the feel of the leather. Can be crosslinked with Poseidon Linker AM-636 for improved solvent resistance and toughness. Forms continuous dry films characterized by high tensile strength, flexibility, excellent yellowing resistance, film clarity, embossing plating properties, and good shear stability. Suitable for all types of aqueous finishes.

Compact Topcoat (Bright)

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Top AT-930N	Unique aqueous Poly-urethane dispersion	7.0-9.0	Whitish Liquid	25±2	High gloss, compact topcoat system for automotive and upholstery leathers. Designed to be used with Poseidon Top AT-901 or Poseidon Top AT-821 to increase gloss levels when necessary. By blending ratios of Poseidon Top AT-930N high gloss top and Poseidon Top AT-901 dull top any automotive gloss can be achieved without upsetting the correct balance of solids and viscosity necessary for good machine application. Physical properties in terms of flexibility, abrasion resistance, water resistance, and cold crack resistance will remain the same. When used in concert with Q-Color pigments and Poseidon Linker AM-636 crosslinker, high add on one or two pass applications can be accomplished by air assisted airless spray on most leathers. Suitable for all types of leather finishes.

Feel Modifier

Q-Feel AW-256 NM	High molecular Weight silicone/ Wax Copolymer	7.0-9.0	Liquid	35±2	A unique feel additive for use exclusively in water based topcoats at levels from 2-8% on the total topcoat mix. It imparts a very pleasant feel of a silky and waxy nature and mellow handle. Q-Feel AW-256NM is very compatible with most top coating materials without causing white crease or white haze. It also improves the flow, water resistance and block resistance of the finish. Suitable for all types of aqueous finishes.
Q-Feel EN-601	High molecular weight silicone dispersed in water	6.0-9.0	Liquid	33±2	A unique feel additive for use exclusively in water based topcoats at levels from 2-10% on the total topcoat mix. It imparts a very pleasant feel of a silky and waxy nature and mellow handle. Very compatible with most top coating materials without causing white crease or white haze. It also improves the flow and water resistance of the finish. Suitable for all types of aqueous finishes.
Q-Feel AW-858	High molecular weight silicone dispersed in water	8.0-10	Liquid	60±2	Unique high solids water based additive for use exclusively in water-based topcoats at levels from 1-6% on total topcoat mix. Imparts a very pleasant feel and mellow handle of a silky and waxy in nature. In addition Q-Feel AW-858 will improve abrasion and wear resistance for automotive topcoats.
Q-Feel AW-946C	Proprietary Functional Silicone dispersed in water	5.0-7.0	Liquid	33±2	Unique silicone additive for use exclusively in water based topcoats at levels from 2-7% based on the total topcoat mix. Q-Feel AW-946C imparts a very pleasant, lubricated, mellow handle and nice feel with soft handle and is particularly suited for NON Squeak and stain resistance properties of automotive leather. Q-Feel AW-946C is very compatible with most top coating materials without causing white crease or white haze. Suitable for all types of high quality and high specification leather with aqueous finishes.
Q-Feel AW-948	Proprietary Silicone additive	8.0-10	Liquid	50±2	Unique silicone additive intended for use in water based topcoats. When used in concert with Q-Feel AW-946C produces a very unique surface feel for upholstery leather. Q-Feel AW-948 is very compatible with most topcoating materials without causing white crease or white haze. Suitable for all types of high quality and high specification leather with aqueous finishes.

Crosslinker

Product	Base	PH / Nature	Appearance Charge	Total Solids %	Uses / Benefits
Poseidon Linker UX-50	Based on Poly-isocyanate	N.A.	Clear Liquid	50±2	Unique ambient temperature curing crosslinker for water borne systems based on polyurethane technology. When used in water based systems physical properties of the coatings are dramatically improved. It is compatible with most acrylic and polyurethane binder systems. Significantly improves water and solvent resistance, toughness, abrasion resistance, block resistance, flexibility and long term durability of coating inclusive of UV outdoor exposures. Use level may vary with type of system used, but generally 0.5 to 5% of the crosslinker to the total weight of the mix is typical for most systems. Pot life varies from 8 hours to 72 hours according to the level of crosslinker used. The higher the crosslinker level the shorter the pot life however, crosslinked density of the resultant film will also increase.
Poseidon Linker AM-636	Based on Poly-isocyanate	N.A	Clear Liquid	98±2	Unique isocyanate based crosslinker dispersible in water for use with the Poseidon Binder, Poseidon Urethane and Poseidon Top products. Improves the water, solvent resistance, toughness, abrasion resistance, block resistance, flexibility and long term durability of the coating and also imparts coatings with outstanding physical properties and performance. Use levels may vary with the type of systems used, but in general 0.5 – 3% is typical addition level for most systems. It is solvent free and features a low viscosity for ease of incorporation into coating.
Poseidon Linker AM-636XL	Based on Poly-isocyanate	N.A	Clear Liquid	75±2	Unique isocyanate based crosslinker dispersible in water for use with the Poseidon Binder, Poseidon Urethane and Poseidon Top products. Improves the water, solvent resistance, toughness, abrasion resistance, block resistance, flexibility and long term durability of the coating and also imparts coatings with outstanding physical properties and performance. Use levels may vary with the type of systems used, but in general 1-5% is typical addition level for most systems. It features a low viscosity for ease of incorporation into the coating.
Poseidon Linker XL-732N	Multi functional Polycarbodiimide	N.A	Milky Liquid	42±2	Unique multifunctional, water based polycarbodiimide crosslinker used to enhance the physical properties and performance of polyurethane and acrylic resins. Improves the water resistance, solvent resistance, block resistance, and long-term durability of the coating. It also reduces the tackiness and improves the cut through resistance. Use levels may vary with the type of system used, but in general 0.5 to 3% is typical addition level for most systems. It is solvent free and features a low viscosity for ease of incorporation, non toxic, curable at room temperature, and has excellent pot life characteristics.

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