

Auto & Marine Care



ADVANCED POLYMER, INC.

Advanced Polymer, Inc. (API) offers a range of materials that beautify & protect automotive and marine surfaces, including painted metal, fiberglass, leather, vinyl, textiles and rubber, from environmental contaminants.



API products will:

- ⌘ Impart gloss,
- ⌘ Increase slip and/or mar resistance.
- ⌘ Enhance surface color and appearance.
- ⌘ Improve water sheeting
- ⌘ Promote water beading.
- ⌘ Reduce dust and dirt pick-up.

Choose from our existing line or work with us to develop a new product to meet your specific requirements. Let us put the API Advantage to work for you.



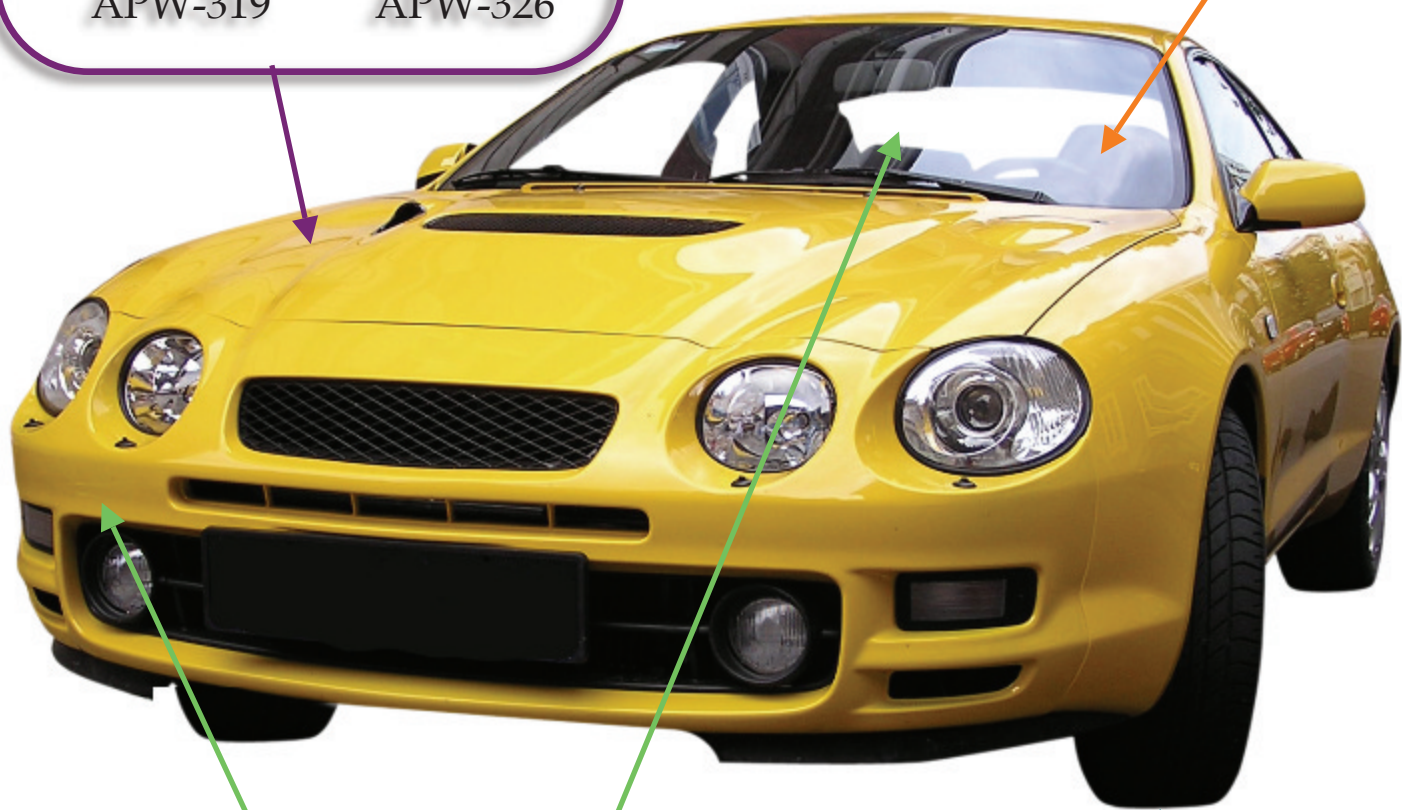
Product Selector - Quick Reference

**Exterior
Polish/Shine/Protect**

APS-324	APS-327
APS-328 Gel	APS-448
APW-319	APW-326

**Interior
Carpet/Upholstery**

AdvaPel® 727
AdvaPel® 734
APG-658
APG-5295



**Interior or Exterior
Vinyl/Leather/Plastic/Rubber**

APS-286 Emulsion	APS-328 Gel
APS-481 Emulsion	APS-337B
APS-ME5	Daimul 60

Tire Shine

APS-337B
APS-ME5

Product Directory

Auto & Marine Care

TYPE	NAME	DESCRIPTION	Gloss/Shine	Low VOC	Durability	Grease/Oil Repellency	Soil/Dust/Dirt Repellency	Slip/Lubricity/Release	Soft Hand	Water Repellent	Water-based	Wetting/Leveling
FP	AdvaPel® 734	Water-based, short-chain, fluoropolymer that can be air dried to impart water and oil repellency, and soil resistance to natural and synthetic textiles.				x	x			x	x	
SE	AP-0280	Waterborne self-curable reactive silicone copolymer emulsion that imparts excellent water repellency on architectural substrates.	x	x				x	x	x	x	
FS	APFS-14	Amphoteric fluorosurfactant primarily designed to reduce the surface tension of aqueous solutions to promote leveling and wetting. In some systems, APFS-14 will also function as a foam stabilizer.									x	x
FS	APFS-16	Nonionic fluorosurfactant that will enhance leveling and wetting in solvent based systems. APFS-16 will also produce stable foam in low polarity hydrocarbon liquids such as kerosene and diesel fuel.									x	x
FS	APFS-71S	Water-based, nonionic, short-chain, fluorosurfactant designed to enhance leveling and wetting in waterborne systems.									x	x
FS	APFS-73S	Nonionic, short-chain, fluorosurfactant designed to enhance leveling and wetting in solvent-based systems.										x
FS	APFS-74S	Water reducible, short-chain anionic fluorosurfactant that produces very low surface tensions in aqueous solutions. APFS-74S is contains no VOCs and is APEO free.		x							x	x
FP	APG-5295	C8-based fluorochemical system designed for use in air dry, after-market products for textiles, upholstery and leather. APG-5295 will impart water, oil, grease, chemical and stain resistance.				x	x			x	x	
FP	APG-658	Solvent based fluoropolymer in odorless mineral spirits that will impart superior water, oil and soil resistance to hard surfaces, textiles, upholstery and carpet.				x	x			x		

KEY TO TYPE::

MT=Micronized Titanium Dioxide

CA=Crosslinking Aid

SCA=Silane Coupling Agent

CPO=Chlorinated Polyolefin

SE=Silicone Emulsion

FP=Fluoropolymer

SF/R=Silicone Fluid/Resin

FS=Fluorosurfactant

SPEC=Specialty Resin

Product Directory

Auto & Marine Care

TYPE	NAME	DESCRIPTION	Gloss/Shine	Low VOC	Durability	Grease/Oil Repellency	Soil/Dust/Dirt Repellency	Slip/Lubricity/Release	Soft Hand	Water Repellent	Water-based	Wetting/Leveling
SE	APS-216 EMULSION	Silicone fluid emulsion that can be used to increase slip and dust/dirt repellency in auto care products for rubber, plastic and vinyl. APS-216 Emulsion can also be effective in mold release compositions.					x	x			x	
SE	APS-286 EMULSION	50% active, solvent free, waterborne emulsion of 10,000 cstc silicone fluid. Adds luster & provide dust & dirt pick-up resistance on vinyl, leather & rubber. Can be used as a release aid in molding, extrusion & casting applications.	x					x			x	
SF/R	APS-324	Solvent reducible, amino functional silicone fluid that provides a durable, high gloss shine on automotive finishes; or soft hand and excellent water repellency in textile and leather applications.	x		x				x	x		
SF/R	APS-327	Solvent reducible, reactive, amino functional silicone fluid that imparts a durable shine to automotive finishes; or soft hand, abrasion resistance & excellent water repellency in textile & leather applications.	x		x				x	x		
SE	APS-328 GEL	Waterborne, concentrated, reactive, silicone copolymer emulsion that will impart a high gloss, abrasion resistant finish, with soft hand and good water repellency, to leather, plastic and rubber.	x		x				x	x	x	
SE	APS-337B	Waterborne, amino functional silicone microemulsion that will produce a durable, semi-matte, natural looking finish on rubber and vinyl.			x						x	
SF/R	APS-340	Methoxy terminated, amino-functional silicone fluid that will impart a durable, glossy finish to architectural surfaces, textiles and leather.	x		x				x			
SF/R	APS-442	Waterborne silicone surfactant that reduces surface tension and improves leveling and wetting properties.						x			x	x
SF/R	APS-448	Waterborne, hydrophilic, silicone copolymer that produces a high luster shine with excellent dust resistance in "wash & wax" applications.	x		x		x	x			x	

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SE	APS-481 EMULSION	Waterborne, reactive, amino functional silicone that will impart a durable, dust and dirt resistant, protective finish to vinyl, leather and rubber.	x		x		x		x		x	
SE	APS-ME5	Waterborne, high viscosity, amino silicone microemulsion designed to produce a superior, high gloss, finish on rubber and vinyl.	x		x		x				x	
SPEC	APW-319	Very low turbidity, cationic microemulsion of pure carnauba wax that provides a durable finish, excellent gloss & slip, and resistance to marring & dirt pick-up. Can be used on fabric, leather, wood, metal & painted surfaces.	x		x		x	x			x	
SPEC	APW-326	Silicone wax copolymer emulsion that can be used in spray polish applications to impart durability, slip and gloss to a variety of substrates	x		x			x			x	
SE	DAIMUL 60	Solvent free, waterborne, 60% active emulsion of 350 centistoke dimethyl fluid that will impart high gloss and slip to substrates including rubber, plastic, vinyl, leather and metal.	x		x			x			x	
SF/R	DIMETHYL FLUID	General purpose polysiloxane fluids with viscosities ranging from 0.65 to 1 million centistokes for use in lubricant, release and polish applications.	x					x				

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Typical Formulations

Automotive Wash/Wax #1

Component	Amount (wt%)
APS-448	1.5
Nonionic/anionic detergent	2.5
Water	96

1. Mix together using a modest amount of agitation
2. Wash the automobile with the above mixture
3. Rinse and towel dry

The surface of the automobile will be clean and dust resistant with a high luster shine.

Automotive Wash/Wax #2

Component	Amount (wt%)
APS-448	8
Ammonium or Sodium Lauryl Sulfate	15
APW-319	2
Water	75

1. Mix together using a modest amount of agitation
2. Wash the automobile with the above mixture
3. Rinse and towel dry

The surface of the automobile will be clean and dust resistant with a high luster shine.

Liquid Car Wax

Component	Amount (wt%)
Wetting Aid	1.6
APW-319	15.0
Water	83.4

1. Add wetting aid followed by APW-319 to water. Mix thoroughly with moderate agitation.
2. For application dilute the wax 1:10 with water. Use approximately 6 to 8 oz. of the wax dilution per application.

Typical Formulations

Automotive Finish Sealer

Component	Amount (wt%)
APS-324	2.5
APS-327	2.5
Odorless Mineral Spirits	95.0

1. Mix APS-324 and APS-327 together.
2. Add mixture produced above to Odorless Mineral Spirits or other hydrocarbon solvent with moderate agitation.
3. Wipe or spray onto surface and buff with a rag or towel.

Provides a durable, deep, lustrous shine that will resist dust accumulation in excess of 7 days.

Water-Based Paste Wax

The function of the aminosilicone (APS-328 gel) is to provide shine, leveling, water repellency and durability.

Component (function)	Weight %	Supplier	Phone
APS-328 Gel (amino silicone)	5	API	(201) 933-0600
APW-319 (wax)	12	API	(201) 933-0600
Kaopolite SF (clay)	2	Imerys	(770) 594-0660
Carbapol 981 or Acrysol ASE 60 (thickener)	2	Noveon Rohm & Haas	(216) 447-5000 (800) 874-6917
Water	79		

Use either Carbapol 981 or Acrysol ASE 60, or a comparable thickener. API recommends thickening the water with an alkali prior to the addition of the remaining ingredients.

Water-Based Vinyl Tire Dressing #1

Component	Weight %
Water	82-88
Acrysol TT-615 or equivalent	2
APS-328 Gel (imparts durability)	7-10
Daimul 60 (imparts lustrous shine)	5-8

1. Mix Acrysol TT-615 or Acrysol ASE-60 (Rohm & Haas) and water. Thicken to the desired viscosity with an alkali (approx. 2% diethanol amine).
2. Slowly add APS-328 Gel and Daimul 60 with moderate agitation.
3. Wipe or spray onto surface.
4. Buff to produce a durable, lustrous shine.

Typical Formulations

Water-Based Vinyl Tire Dressing #2

Component	Weight %
Acrysol TT-615 or Acrysol ASE-60	2
Water	50
APS-481 Emulsion	10
APS-448	20
Isopropyl Alcohol	18

1. Mix Acrysol TT or Acrysol ASE-60 (Rohm & Haas) with water. Thicken to slightly higher than the desired viscosity with an alkali, as addition of the remaining ingredients will decrease viscosity slightly (approx. 1.4% diethanol amine).
2. Add the silicones with a moderate amount of agitation.
3. Add IPA in the final stage with ample agitation.
4. Wipe or spray onto surface.

Water-Based Vinyl Tire Dressing #3

Component	Weight %
Acrysol TT-615 or Acrysol ASE-60	2
Water	76
APS-481 Emulsion	10
APS-442	12

1. Mix Acrysol TT or Acrysol ASE-60 (Rohm & Haas) with water. Thicken to the desired viscosity with an alkali (approx. 1.8% diethanol amine).
2. Slowly add the silicones to the thickened water with a moderate amount of agitation.
3. Wipe or spray onto surface.

Provides a durable finish.

Solvent-Based Vinyl Tire Dressing

Component	Weight %
Silicone DMF 350 cs	7.5
Silicone DMF 10,000 cs	22.5
Odorless Mineral Spirits	70

1. Mix together using modest amount of agitation.
2. Wipe or spray onto surface.

Typical Formulations

Solvent-Based Upholstery Treatment

Component	Weight %
APG-658	4-7
Odorless Mineral Spirits	93-96

1. Mix components together using a modest amount of agitation.
2. Apply by pump spray onto upholstery or carpeting. (Use pump spray only. **Do Not aerosolize this product.**)
3. Allow to dry thoroughly (minimum 24 hours).

Water-Based Upholstery Treatment

Component	Weight %
APG-5295	3-6
Water	97-94

1. Mix components together using a modest amount of agitation.
2. Apply by pump spray onto upholstery or carpeting. (Use pump spray only. **Do Not aerosolize this product.**)
3. Allow to dry thoroughly (minimum 24 hours).



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www.advpolymer.com

Let us put the API advantage to work for you!

Advanced Solutions

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- Silane Coupling Agents

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