



Accessories

Pattern Coatings (Primers, Paints & Sealers)

Freeman 90-1 Pattern Coating

The industry standard, Freeman 90-1 is a durable, high-gloss, fast-drying, lacquer-based coating made up of heat-resistant resins to withstand the chemicals and heat encountered with most air-set and cold-set binders. It is self-leveling and can be applied by spraying when thinned with Freeman Fre-Thin Thinner (pg. 113).



Catalog Number	Color	Availability	Net Wt. (Lbs.)
024105	Clear	Gallon	10
024110	Clear Orange	Gallon	10
024115	Black	Gallon	10
024120	Red	Gallon	10
024125	Burnt Orange	Gallon	10
024130	Yellow	Gallon	10
024135	Gray	Gallon	10
024140	Aluminum	Gallon	10
024145	White	Gallon	10

Freeman No. 60 Pattern Coating

Freeman No. 60 Pattern Coating is a sandable, gray-colored lacquer primer which is formulated for use with cold box and no-bake sand systems. It is ideal for wood patterns and core boxes and it also used as a primer for 90-1 coatings.



Catalog Number	Description	Availability	Net Wt. (Lbs.)
024005	No. 60 Gray Primer Coating	Gallon	10

Aluminum Paint Pot – 2 Quart

This heavy-duty aluminum pot is ideal for applying any pattern coating or sealer by brush. For convenience there is a bar just below the rim of the pot to hang the brush while keeping the bristles in the paint. The domed cover seals the container, enclosing both paint and brush, preventing evaporation and thickening of the contents.



Catalog Number	Description
046668	Aluminum Paint Pot (2 Quart)

Freeman Wood & Plaster Sealer

This clear lacquer sanding sealer may be applied by brush or low pressure spray. Use Fre-Thin Thinner (pg. 113) for desired viscosity. Specially formulated to seal wood, plaster, sheet wax, MDF and other porous materials, it is ideal for sealing wood master models to prepare the surface for plastic duplication. For basic release procedures see page 119.



Catalog Number	Description	Availability
054554	Freeman Wood & Plaster – Aerosol	12 oz.
054553	Freeman Wood & Plaster Sealer	Pint
054550	Freeman Wood & Plaster Sealer	Gallon
054551	Freeman Wood & Plaster Sealer	5 Gallon

Bacolac Professional Sandable Sealer

This clear lacquer sanding sealer is specifically formulated as a high build, easily sandable coating for sealing and smoothing wood, MDF, plaster, and other porous surfaces. Ideal for sealing wood models to prepare the surface for plastic duplication.



Catalog Number	Description	Availability
054531	Bacolac Sandable Sealer	Gallon
054532	Bacolac Reducer	Gallon

RenShape 5008 Hi-Performance Sealer

Low viscosity sealer specifically designed to create a clear, tough, chemical resistant, and high temperature resistant surface to RenShape 5008. Dries for use in 2 hours.

Catalog Number	Description	Availability
056526	RenShape 5008 Hi-Performance Sealer	Gallon

Devcon Flexane FL-10 Primer

This product is a blue one component adhesion promoter used to increase the bonding strength of liquid polyurethanes to metal surfaces. To use, apply two coats to a clean and roughened metal surface permitting 15 minutes between applications and 30 minutes prior to pouring the urethane.



Catalog Number	Description	Mfg. No.	Availability
054635	Devcon FL-10 Flexane Primer	15980	4 oz.

Devcon Flexane FL-20 Primer

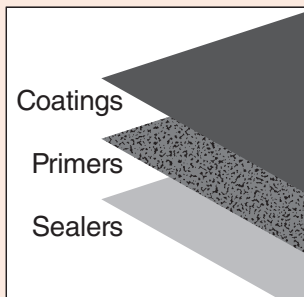
This product is an orange one component adhesion promoter used to increase the bonding strength of liquid polyurethanes to concrete, rubber, urethane, wood, fiberglass, and cured epoxy surfaces. To use, apply two coats to the clean and roughened surface permitting 15 minutes between applications and 30 minutes prior to pouring the urethane.

Catalog Number	Description	Mfg. No.	Availability
054639	Devcon FL-20 Flexane Primer	15985	4 oz.

Pattern Coatings (Primers, Paints & Sealers) [CONTD.]

Duratec Mold Surfacing Products

Duratec Mold Surfacing Products from Hawkeye Industries are designed to quickly establish a hard, durable, high gloss surface on lower cost mold materials such as RenShape Polyurethane Foam boards, MDF, plaster, and wood. These systems may also be used to resurface polyester molds to increase mold life. Each product must be used with the Duratec Hardener (sold separately, below). It is highly recommended to read the technical data sheet for complete application instructions prior to usage.



Duratec Polyester Clear Sealer

This low viscosity, rapid curing, two-component sealer is used to anchor Duratec primers to porous or hard to bond substrates such as MDF, wood, plaster, and concrete. Features a 14-16 minute gel time and may be top coated in 1-2 hours.

Catalog Number	Description	Mfg. No.	Availability
024452	Duratec Clear Polyester Sealer	823	Gallon

Duratec Polyester Sanding & Surfacing Primers

The Sanding Primer is the original formulation for easy sanding on applications that require only a moderate shine. The new Sanding Primer EZ is even easier to sand and produces a higher luster finish. The Surfacing Primer, while more difficult to sand, produces the highest luster of the group. The Duratec Clear Hi-Gloss additive may be added to all three of these formulations for even greater shine.

Catalog Number	Description	Mfg. No.	Availability
024472	Duratec Gray Sanding Primer	707-007	Gallon
024457	Duratec Gray Sanding Primer EZ	707-060	Gallon
024455	Duratec Gray Surfacing Primer	707-002	Gallon
024458	Duratec White Surfacing Primer	714-002	Gallon
024475	Duratec Clear Hi-Gloss Additive	904-001	Gallon

Duratec Vinyl Ester Surfacing Primer

This two-component polyester surfacing compound is similar to the regular Surfacing Primer but offers a higher heat distortion temperature of 300°F. It is ideal for use in surfacing large or small vacuum form tools, as a high temperature gel coat to be reinforced with epoxy laminates and general mold resurfacing projects. Features an 18-22 minute gel time and may be sanded within 1-6 hours to a high gloss finish.

Catalog Number	Description	Mfg. No.	Availability
024460	Duratec Vinyl Ester Primer	1799-005	Gallon

Duratec Hardener

The hardener is required for use with all of the Duratec resins listed above. Two of the 1.48 oz. bottles are enough to catalyze one gallon of resin.

Catalog Number	Description	Availability
024465	Duratec Hardener Only	1.48 oz.
024468	Duratec Hardener Only	Gallon

Duratec Hi-Gloss Coatings

For the ultimate in high-gloss surfaces, Duratec offers two top-coat materials to apply over either the Duratec Polyester or Vinyl Ester Primers.

Catalog Number	Description	Mfg. No.	Availability
024476	Duratec Clear Polyester Hi-Gloss Coating	904-040	Gallon
024480	Duratec Clear Vinyl Ester Hi-Gloss Top-Coat	1904-045	Gallon

Krylon® SparVar™ Lacquer Paint

Krylon SparVar Lacquer Paint is a durable acrylic that dries in 15 minutes and can be recoated anytime. Available in 11 oz. aerosol cans.

Catalog Number	Description	Mfg. No.
038060	Krylon SparVar Ultra-Flat Black Lacquer	KS111
038062	Krylon SparVar Perma-Clear Lacquer	KS500



Krylon® Tough Coat™ Light Gray Sandable Primer

This lacquer-based primer fills in porosity and other imperfections on models and rigid molds. It is fast drying and easily sandable and can be top-coated with another high gloss lacquer or left as is. Available in 12 oz. aerosol cans.

Catalog Number	Description	Mfg. No.
038064	Light Gray Sandable Primer	SO0341



Flake Shellac

The best grade of light orange flake shellac. A bright, hard and glossy surface can be secured when mixed with our Alcohol Solvent. Typical mix ratio is 4 lbs. of Flake Shellac to 1 gallon of Alcohol Solvent (pg. 113).

Catalog Number	Description	Availability
027110	Flake Shellac	by the pound

Prepared Shellac

Zinsser shellac based sealer for painting wood, plaster, and other porous surfaces. Excellent "stain blocker." Will remain bright and dry hard.

Catalog Number	Description	Availability
027115	Prepared Shellac – Amber	Gallon

Formula Five Clean 'N Glaze

Formula Five Clean 'N Glaze is a mild buffing compound used to remove fine scratches and surface hazing from mold surfaces. It will also produce a high luster finish for subsequent applications of mold wax.

Catalog Number	Description	Availability
054270	Formula Five Clean 'N Glaze	Quart

Mold Releases – Sacrificial

Wax-Based Mold Releases

Freeman Wax Release

This product is formulated and manufactured by Freeman specifically for the effective release of urethanes, epoxies, or polyester resins. It has a gel-like consistency, making it easy to apply with a brush. For basic release procedures see page 119.



Catalog Number	Description	Availability
055051	Freeman Wax Release	Quart
055052	Freeman Wax Release	Gallon
055053	Freeman Wax Release	5 Gallon

Johnson Paste Wax

A good, general-purpose release agent for epoxies, urethanes, rubber, acrylics or ceramics. SC Johnson's original blend of hard finish waxes is a popular general-purpose release agent.



Catalog Number	Description	Availability
027885	Johnson Paste Wax	1 lb. Can

Trewax® Clear Paste Wax

Trewax is a high quality paste wax preferred by many moldmakers to effectively release epoxies, polyesters, and polyurethanes.

Catalog Number	Description	Availability
027884	Trewax Clear Paste Wax	12.35 fl. oz.

Synlube 531

Synlube 531 is a non-silicone, wax-based aerosol or liquid release agent specifically designed for the effective release of urethanes, epoxies, and polyester resins. Synlube 531 has a low viscosity, good wetting action, and spreads uniformly when applied.



Catalog Number	Description	Availability
057596	Synlube 531	Quart
057599	Synlube 531 Aerosol – Single Can	14 fl. oz.
057598	Synlube 531 Aerosol Case Qty – 12/Case	10.5 lb.

RenLease 803

RenLease 803 is a wax based, white, liquid parting agent that may be brushed or sprayed. Contains a small amount of silicone, dries clear, and may be polished for high gloss. An excellent release at temperatures to 250°F and from all types of surfaces. A minimum of three coats is recommended.

Catalog Number	Description	Availability
056216	RenLease 803 Wax Release	Quart
056220	RenLease 803 Wax Release	5 Gallon

RenLease 805-1

RenLease 805-1 is a white paste wax release agent which can be used on plastic, metal, or properly sealed wood and plaster molds. Contains no silicones.



Catalog Number	Description	Availability
056209	RenLease 805-1 Paste Wax	Quart

Partall Paste #2

Paste #2 is a hard paste wax that is effective as a release agent for urethanes, epoxies, or polyester resin systems. It contains no silicone.

Catalog Number	Description	Net Wt. (Lbs.)
054267	Partall Paste #2	1.5

Partall Hi-Temp Wax

Hi-Temp Wax is a hard wax that contains a blend of waxes and semi-permanent release agents to create an excellent release for resins that cure or catalyze at higher temperatures (150°F - 350°F). It contains no silicone.



Catalog Number	Description	Net Wt. (Lbs.)
054266	Partall Hi-Temp Wax	0.75

Chemwax 500

Chemwax 500 is a wax release agent that is designed to be applied and let dry. This material offers fast solvent evaporation, no buffing required, and temperature stability to 300°F. May be applied with spray equipment, wiping, or brushing.

Catalog Number	Description	Availability
058374	Chemlease Chemwax 500	Gallon

Marbalease® Polymer Concrete Release

Marbalease Polymer Concrete Release is a fast drying liquid polishing compound designed as a release agent for polymer concrete applications on polyester or metal molds, including heated molds. It may also be used as a general purpose release agent in applications where a smooth post-production finish is not required.

Catalog Number	Description	Availability
054268	Marbalease Release	5 Gallon

Formula Five Mold Release Wax

Formula Five Mold Wax is formulated using carnuba wax, hydrocarbon waxes, and silicone to produce a highly effective mold release. Supplied in a paste consistency, this release is ideal for use with polyesters, epoxies, or urethanes.

Catalog Number	Description	Availability
054271	Formula Five Mold Release Wax	12 fl. oz.

Mold Releases – Sacrificial [CONT'D.]

Silicone-Based Mold Releases

Caution: Silicone based mold releases should not be used when parts have to be painted.

RenLease 76 Silicone Spray

RenLease 76 Silicone Spray is a premium quality silicone based spray release designed for use on epoxies and polyurethanes. Improved spray pattern and dispersal from can.

Catalog Number	Description	Availability
056195	RenLease 76 Silicone Release	12 fl. oz.



RenLease 78-2 Silicone Spray

RenLease 78-2 Silicone Release Agent is formulated specifically for epoxy and polyurethane resin systems. Forms a slick, non-melting surface with a heat-resistance of up to 400°F.

Catalog Number	Description	Availability
056210	RenLease 78-2 Silicone Release	9.25 fl. oz.



Silicone Spray

This is a high-solids-content liquid in an aerosol can. Silicone spray is used to release epoxies or urethanes from any mold. It has a heat resistance up to 600°F for high heat applications.

Catalog Number	Description	Availability
054420	Silicone Spray	12 fl. Oz.



Chemlease 66H Silicone Release Agent

Chemlease 66H is a silicone for the effective release of epoxies and urethanes. Excellent temperature resistance of 600°F for hot molded parts. Available in liquid and aerosol packaging.

Catalog Number	Description	Availability
058310	Chemlease 66H	9.5 fl. oz.
058334	Chemlease 66H	Gallon

Devcon Release Agent

A silicone-based release agent provided in a liquid form. Works well on most all epoxy and urethane resins.

Number	Description	Availability
054644	Devcon Liquid Release Agent	Pint

PVA-Based Mold Releases

Partall Film #10

Partall Film #10 is a water and alcohol based polyvinyl alcohol (PVA) coating comprised of water soluble, film forming materials. It is excellent for releasing epoxies, polyesters, and urethanes. For basic release procedures see page 119.

Catalog Number	Description	Availability
054251	Partall #10 Mold Release	Pint
054256	Partall #10 Mold Release	Gallon
054261	Partall #10 Mold Release	5 Gallon
054262	Partall #10 Mold Release Clear	5 Gallon

Partall Coverall Film PVA

Partall Coverall Film is a non-flammable, water based, polyvinyl alcohol (PVA) coating comprised of non-hazardous, film-forming materials. It is excellent for releasing epoxies, polyesters, and urethanes.

Catalog Number	Description	Availability
054269	Partall Coverall Film	Gallon

Other Mold Releases

Pattern Release 202

Ideal for patterns and coatings used in the preparation of silicone rubber molds. This material is petroleum jelly in an aerosol can and may be used on a wide variety of pattern materials.

Catalog Number	Description	Availability
054426	Pattern Release 202	16 fl. oz.



Sprayon P.T.F.E. Dry Film Mold Release

Sprayon P.T.F.E. Dry Film Mold Release is made with DuPont Krytox® Dry Film, which provides excellent anti-stick properties that will not transfer to the finished part. This product contains no silicone to interfere with the painting of finished parts. Temperature resistance to 575°F.

Catalog Number	Description	Availability
038077	Sprayon P.T.F.E. Dry Film Mold Release	12 fl. oz.

Sprayon Zinc Sterate Mold Release

Sprayon Zinc Sterate Mold Release is a non-silicone, paintable, fine particle powder produced for use in reinforced polyester thermoset compounds and plaster molds.

Catalog Number	Description	Availability
038074	Sprayon Zinc Stearate Mold Release	12 fl. oz.

Sprayon Paintable Mold Release

Sprayon Paintable Mold Release exhibits excellent release properties where low silicone concentration is required and it will not interfere with coating or bonding operations subsequent to molding.

Catalog Number	Description	Availability
038078	Sprayon Paintable Mold Release	12 fl. oz.

Semi-Permanent Mold Release Systems

Semi-Permanent Mold Cleaners

Chemlease Mold Cleaner EZ

Chemlease Mold Cleaner removes release agents, buffing and polishing compounds, dirt, and grease from a variety of mold surfaces. The resulting surface is then suitable for applying Chemlease semi-permanent primers and sealers, ensuring that a good chemical bond is obtained.

The EZ version of this material does not contain any chemicals listed on the Hazardous Air Pollutants list (HAPs). The original non-EZ formulation is still available for a limited time.



Catalog Number	Description	Availability
058194	Chemlease Mold Cleaner EZ	Gallon
058184	Chemlease Mold Cleaner	Gallon
058186	Chemlease Mold Cleaner	5 Gallon

Chemlease Hydrolease Cleaner

Chemlease Hydrolease Cleaner is an environmentally friendly, water based mold cleaner. Ideal for removing sealers, primers, and topcoats from metal, polyester, and vinyl ester molds.

Catalog Number	Description	Availability
058154	Chemlease Hydrolease Cleaner	Gallon

Chemlease Mold Cleaner 201B

Chemlease Mold Cleaner 201B is designed for removing thermoset and thermoplastic polymers from mold surfaces. It works effectively on metal molds, but due to the aggressiveness of this cleaner, it is not suggested for use on composite molds.

Catalog Number	Description	Availability
058486	Chemlease Mold Cleaner 201B	5 Gallon

Semi-Permanent Mold Primers

Chemlease MPP 117

Chemlease MPP 117 is a one component mold primer for polyester, epoxy, phenolic, and metal molds. Applied using a clean cotton cloth, two coats of this material is typically sufficient to seal the mold surface. MPP 117 is not a release agent, so proper Chemlease release agents need to be applied over this cured surface to ensure good demold.

Catalog Number	Description	Availability
058204	Chemlease MPP 117	Gallon

Chemlease MPP 2180

Chemlease MPP 2180 is a heavy duty primer used to prepare and seal mold surfaces. Excellent for polyester, epoxy, phenolic, and metal. Provides a smooth, non-porous surface for the application of semi-permanent sealers and release agents. MPP 2180 is a mold primer only and has no release properties.

Catalog Number	Description	Availability
058212	Chemlease MPP 2180	Quart
058214	Chemlease MPP 2180	Gallon

Semi-Permanent Mold Sealers

Chemlease 15 Sealer EZ

Chemlease 15 Sealer EZ is a mold sealer specifically designed to minimize mold porosity when using semi-permanent release agents. Compatible with fiberglass, metals, and most solid or dense surfaces. It is the recommended sealer for RenShape 2000.

The EZ version of this material does not contain any chemicals listed on the Hazardous Air Pollutants list (HAPs). The original non-EZ formulation is still available for a limited time.



Catalog Number	Description	Availability
058002	Chemlease 15 Sealer EZ	Quart
058004	Chemlease 15 Sealer EZ	Gallon
058006	Chemlease 15 Sealer EZ	5 Gallon
058432	Chemlease 15 Sealer	Quart
058434	Chemlease 15 Sealer	Gallon

Zyvox Sealproof

Zyvox Sealproof is a durable non-VOC visible film with superior adhesion to all types of wood, composites, and metals. Zyvox Sealproof gives a matte surface. For parts requiring a high gloss finish, Zyvox Sealbrite or Zyvox Sealer GP should be used. Zyvox Sealproof, when applied in conjunction with Enviroshield Release Agent, provides multiple releases and reduces down time due to cleaning.

Catalog Number	Description	Availability
300010	Zyvox Sealproof	Gallon

Zyvox Sealer GP

Zyvox Sealer GP is a high modulus, clear, flexible film with superior substrate adhesion that forms a protective shield on the mold or tool surface. As a conditioner, Sealer GP is designed to treat both the chemical and physical bonding sites found on every raw mold surface. In addition, Sealer GP provides the base needed to extend the life of the release coating and will allow optimal performance from the release coating.

Catalog Number	Description	Availability
300020	Zyvox Sealer GP	Gallon

Semi-Permanent Release Agents

Chemlease R&B EZ

Chemlease R&B EZ is a high slip semi-permanent release for closed molding of abrasive materials or low draft parts. This product features multiple releases between applications and produces an excellent gloss with minimal transfer to the finished part. Used as a wipe on/wipe off product.

The EZ version of this material does not contain any chemicals listed on the Hazardous Air Pollutants list (HAPs). The original non-EZ formulation is still available for a limited time.

Catalog Number	Description	Availability
058424	Chemlease R&B EZ	Gallon
058274	Chemlease R&B	Gallon

Semi-Permanent Releases Systems [CONT'D.]

Semi-Permanent Release Agents [con't]

Chemlease One FS EZ

Chemlease One FS EZ is a semi-permanent release that is easy to apply and provides multiple releases for high gloss composite molding. Used as a wipe on only product.

The EZ version of this material does not contain any chemicals listed on the Hazardous Air Pollutants list (HAPs). The original non-EZ formulation is still available for a limited time.



Catalog Number	Description	Availability
058474	Chemlease One FS EZ	Gallon
058476	Chemlease One FS EZ	5 Gallon
058478	Chemlease One FS EZ	55 Gallon
058224	Chemlease One FS	Gallon

Chemlease PMR EZ

Chemlease PMR is a semi-permanent release specifically designed for the composites industry where a high quality finish is required. This product features multiple releases between applications and produces an excellent gloss with minimal transfer to the finished part. Used as a wipe on /wipe off product. Chemlease PMR-90 EZ is a higher slip formulation of Chemlease PMR EZ.

The EZ version of this material does not contain any chemicals listed on the Hazardous Air Pollutants list (HAPs). The original non-EZ formulation is still available for a limited time.



Catalog Number	Description	Availability
058244	Chemlease PMR EZ	Gallon
058246	Chemlease PMR EZ	5 Gallon
058234	Chemlease PMR	Gallon
058264	Chemlease PMR-90 EZ	Gallon

Chemlease MR-515H

Chemlease MR-515H is a specialized release agent designed specifically for releasing urethane rigid foams, cast urethane elastomers, and other thermoset resins. For best results, apply using conventional spray equipment. Reapply after every part to ensure good release.

Catalog Number	Description	Availability
058496	Chemlease MR-515H	5 Gallon

Chemlease SK-3

Chemlease SK-3 is a specialty top coat that is designed to be used for releasing polyester parts. This product is unique in the sense that it may be sprayed on with HVLP equipment or applied in the traditional wipe on manner. When applied via spraying there is no wait time between coats, thus reducing application costs.

Catalog Number	Description	Availability
058304	Chemlease SK-3	Gallon
058306	Chemlease SK-3	5 Gallon

Chemlease 41 EZ

Chemlease 41 EZ is a semi-permanent release specifically designed for the composites industry where a matte finish is desired. This product features multiple releases between applications with minimal transfer to the finished part. Used as a wipe on /wipe off product. Chemlease 41-90 EZ is a higher slip formulation of Chemlease 41 EZ. Neither product contains any chemicals listed on the Hazardous Air Pollutants list (HAPs).

Catalog Number	Description	Availability
058024	Chemlease 41 EZ	Gallon
058026	Chemlease 41 EZ	5 Gallon
058044	Chemlease 41-90 EZ	Gallon
058046	Chemlease 41-90 EZ	5 Gallon

Chemlease 70 EZ

Chemlease 70 EZ is a semi-permanent release specifically designed for the composites industry where a high quality finish is required. This product features multiple releases between applications and produces an excellent gloss with minimal transfer to the finished part. Used as a wipe on /wipe off product. Chemlease 70-90 EZ is a higher slip formulation of Chemlease 70 EZ. This material does not contain any chemicals listed on the Hazardous Air Pollutants list (HAPs).

Catalog Number	Description	Availability
058064	Chemlease 70 EZ	Gallon
058084	Chemlease 70-90 EZ	Gallon

Chemlease 75

Chemlease 75 is a semi-permanent release specifically designed for the marine and cultured marble industry where a high gloss finish is required. Excellent for large parts where pre-release may be a problem. Used as a wipe on /wipe off product.

Catalog Number	Description	Availability
058094	Chemlease 75	Gallon

Zyvax EnviroShield

Zyvax Enviroshield is a versatile, odorless and non VOC release agent that is recommended for applications requiring multiple releases, superior surface finish with high gloss, and easy touch-up for seamless production cycles. Enviroshield gives outstanding release performance when applied over Sealer GP. It chemically bonds to the mold surface and, when applied correctly, it will not transfer to the molded part or other processing equipment.

Catalog Number	Description	Availability
300025	Zyvax EnviroShield	Gallon

Zyvax WaterShield

Zyvax Watershield is a high performance polymer coating that has been created to give multiple releases while exceeding the most demanding environmental requirements. Watershield has no VOC's and is so versatile it can be used for most molding operations and is preferred for application directly on warm mold tools.

Catalog Number	Description	Availability
300030	Zyvax WaterShield	Gallon

Gloves & Protective Wear

Vinyl Gloves

Vinyl gloves are an economical choice for use in activities that do not require the highest degree of tactile precision. Vinyl does not offer as much dexterity as nitrile or latex and tends to tear more easily. But for general, low-risk applications, vinyl offers the best value. Our vinyl gloves feature rolled cuffs to provide greater tear resistance and easy gripping.



Catalog Number	Description	Size	Pairs Per Box
054060	Vinyl Gloves – 5 mil	Large	50
054061	Vinyl Gloves – 5 mil	X-Large	50

Latex Gloves

Latex gloves provide superior dexterity and barrier protection. However, because latex is a natural substance, the protein in latex gloves can cause an allergic reaction and irritation in many people. Our latex gloves feature rolled cuffs to provide greater tear resistance and easy gripping.



Catalog Number	Description	Size	Pairs Per Box
054064	Latex Gloves – 8 mil	Large	100
054063	Latex Gloves – 8 mil	X-Large	100
054066	Powder Free Latex Gloves – 7.5 mil	Large	50
054068	Powder Free Latex Gloves – 7.5 mil	X-Large	50

Nitrile Gloves

Nitrile gloves are made of synthetic latex. They contain no latex proteins and are three times more puncture resistant than latex rubber. More importantly, they offer superior resistance to many types of chemicals.



Catalog Number	Description	Size	Pairs Per Box
054070	Nitrile Gloves – 7 mil	Large	50
054069	Nitrile Gloves – 7 mil	X-Large	50

3M Particulate Respirators (Mask)

Because of its low profile shape, eye glasses, goggles and face shields can be easily worn without interference. Excellent to wear when operating sanders and other dust creating equipment. Not designed for use against toxic dusts, spray paints, or organic vapor.



Catalog Number	Description	Qty/Box	Mfg. No.
054526	3M Respirator	20	8210

Tyvek® Sleeves

These 18" long sleeves are designed to protect workers' arms from resin contact. Tyvek is a durable, yet pliable fabric that resists tears, snags, and punctures, and its slick surface prevents particle entrapment.



Catalog Number	Description	Length
418002	Tyvek Sleeves	18"

Tyvek® Apron

These comfortable, reusable aprons form a virtually impermeable barrier against dirt, grease, grime, sprays, chemicals, and moisture. Tyvek is a durable, yet pliable fabric that resists tears, snags, and punctures. Its slick surface prevents particle entrapment. Even though these aprons are disposable, they can often be used over and over (depending on work conditions).

The bib-style aprons feature serged seams and long ties for a comfortable fit. The Tyvek aprons are 28 inches wide by 36 inches long.



Catalog Number	Description	Size
418001	Tyvek Bib Style Apron	28" x 36"

Freeman Heavy-Duty Shop Apron

A very heavyweight cotton apron which is tough enough for shop use. Features include two chest pockets, two hip pockets, metal ferrule tie holes and heavy-duty stitching.



Catalog Number	Description
054065	Heavy Duty Shop Apron

Mixing Cups & Paddles

Paper Cups

These economical paper cups are ideal for mixing all types of tooling and reproduction plastics. The lined paper cups are specially coated to prevent resin absorption. The larger paper cups are untreated.



Number	Description	Size	Cups Per Package	Cups Per Case
054037	Lined Paper Cups	16 oz.	50	500
054042	Lined Paper Cups	32 oz.	25	500
054045	Untreated Paper Cups	64 oz.	50	300
054048	Untreated Paper Cups	83 oz.	25	100
054050	Untreated Paper Cups	165 oz.	25	100

Plain Plastic Cups

These economical plastic cups are ideal for mixing all types of tooling and reproduction plastics. They are made of high density polyethylene (HDPE), white in color, and unmarked.



Number	Description	Size	Cups Per Case
054031	White Plastic Cups	12 oz.	500
054036	White Plastic Cups	16 oz.	500
054041	White Plastic Cups	32 oz.	500
054047	White Plastic Cups	64 oz.	200
054049	White Plastic Cups	85 oz.	200
054056	White Plastic Cups with Wire Handle	128 oz.	120
054051	White Plastic Cups	166 oz.	120

Graduated Plastic Cups

These convenient plastic cups are also made of high density polyethylene (HDPE). However, these cups are translucent and have both milliliter and ounce graduations on the container to aid in mixing.



Number	Description	Size	Cups Per Case
054025	Clear Plastic with Graduations	24 oz.	100
054026	Clear Plastic with Graduations	48 oz.	50

Wood Mixing Paddles

Wood mixing paddles for both gallon and 5 gallon containers. Both paddles are ideal for mixing paint, urethanes, epoxies, or any other liquid. Sold by the box.



Catalog Number	Description	Thickness	Width	Length	Qty/Box
054521	Wood Mixing Paddles (for 1 Gallon)	1/8"	1 1/8"	14"	500
054525	Wood Mixing Paddles (for 5 Gallon)	7/32"	1 3/8"	21"	200

Tongue Depressors

Polished hardwood, 3/4" x 6", packaged 500 per box. Excellent for mixing small quantities of tooling plastics and repair materials.



Catalog Number	Description	Width	Length	Qty/Box
054520	Tongue Depressors	3/4"	6"	500

Clean-Up Supplies

Freeman 302 Urethane Protectant

Freeman 302 is an inert gas used to preserve and prolong the usable life of moisture sensitive polyurethanes. Before resealing the containers, spray a short burst of Freeman 302 in the open container and seal immediately. Repeat after every use.



Catalog Number	Description	Availability
054706	Freeman 302 Urethane Protectant	10 oz.

MVP Waterless Hand Cleaner

MVP is a waterless hand cleaner that removes grease, resins, oils, adhesives, and tar. Does not contain harsh abrasives or irritating solvents. Contains lanolin to soothe and smooth skin. MVP gallon size has a convenient pump (sold separately) for easy dispensing.



Catalog Number	Description	Availability
054208	MVP Waterless Hand Cleaner	10 oz.
054209	MVP Waterless Hand Cleaner	Quart
054205	MVP Waterless Hand Cleaner	Gallon
054206	Pump Only for MVP Waterless Hand Cleaner	

Epoxy Hand Cleaner, Liquid

This liquid cleaner contains no caustics or petroleum solvents. It cleans hands of the most resinous substances or greases including epoxy, urethane, polyester, adhesives, paints and inks.



Catalog Number	Description	Availability
054207	Liquid Epoxy Hand Cleaner	16 oz.

WypAll Shop Rags

These general purpose shop rags are made of 100% cotton and used for clean-up, cleaning mold surfaces from excess release, and applying Chemlease mold cleaners, primers, and semi-permanent release agents. There are 100 rags in each handy pop-up dispenser.



Catalog Number	Description	Availability
418010	WypAll X70 Shop Rags	

Safety Plunger Can

The Safety Plunger Can is ideal for dispensing acetone (pg. 113) onto a shop rag for mold cleaning. Can is one quart size. For dispensing, place shop rag on dispenser and depress the plunger.



Catalog Number	Description	Availability
418005	Safety Plunger Can	Quart

Brushes

White-Bristle Throwing Brush

Low cost and expendable. Ideal for epoxy tooling work and one-time use. Unpainted wood handle with pure bristles firmly fastened in the ferrule.



Catalog Number	Description	Width	Qty / Box
032215	White Pure Bristle Throwing Brush,	½"	36
032220	White Pure Bristle Throwing Brush	1"	36
032225	White Pure Bristle Throwing Brush	1½"	36
032230	White Pure Bristle Throwing Brush	2"	36
032235	White Pure Bristle Throwing Brush	2½"	24
032240	White Pure Bristle Throwing Brush	3"	24

Ox Hair Brush

This brush features very fine and soft ox hair bristles, a chiseled edge, nicked ferrule, and a walnut finish handle. Ideal for applying shellac and other coatings.



Catalog Number	Description	Width	Qty / Box
032085	Ox Hair Brush	¼"	12
032090	Ox Hair Brush	½"	12
032100	Ox Hair Brush	1"	12

Acid Brush

This acid brush, used for applying surface coats, features a long metal handle and ½" chiseled edge horsehair bristle. An economical, throwaway-type brush that is good for brushing into small areas.



Catalog Number	Description	Width	Qty / Box
032330	Acid Brush (box)	½"	144

Shop Brush

The short trim makes this brush stiffer for factory use. Raised black band on natural lacquered block.



Catalog Number	Description	Width	Length
032030	Shop Brush	2"	8"

Wedges

High Impact wedges to assist in demolding applications. Color coded for easy identification.



GREEN—"Super Tuff" – Made of extremely high impact nylon. High quality wedge that maintains a sharp insertion edge five times longer than standard wedges to ensure that there is no damage to mold edges.

WHITE—"Econo" – Made of high grade plastic to resist breakage. Lower cost wedge. Has a textured finish.

TAN—"Flex" – Made of flexible plastic for inserting into compound curved mold edges.

Nylon Throwing Brush

Low cost and expendable, this brush is excellent for applying epoxy surface coats. It features a plastic handle with nylon bristles firmly fastened in the ferrule.



Catalog Number	Description	Width	Qty / Box
032300	Nylon Throwing Brush	½"	72
032305	Nylon Throwing Brush	1"	72
032310	Nylon Throwing Brush	1½"	72
032315	Nylon Throwing Brush	2"	72
032325	Nylon Throwing Brush	3"	48

Molder's Brush

The Molder's Brush features black horsehair set into a solid hardwood handle. A good brush for general foundry applications.



Catalog Number	Description	Width	Trim Length	Block Size	Qty / Box
032080	Molder's Brush	1½"	2⅞"	9" x 1½"	6

Economy Flat-Bristle Brush

This brush features pure white china bristles, double thick with a chiseled edge. Bristles are secured with a nicked ferrule plastic handle.



Number	Description	Width	Thickness	Trim Length	Qty / Box
032060	Economy Flat Bristle Brush	½"	¼"	1⅝"	12
032065	Economy Flat Bristle Brush	1"	⅞"	2⅝"	12
032070	Economy Flat Bristle Brush	1½"	½"	2⅝"	12
032075	Economy Flat Bristle Brush	2"	⅞"	2⅝"	12
032080	Economy Flat Bristle Brush	3"	1¼"	2⅝"	12

Casting Brush

This brush is made of first grade flat tempered steel wire, mounted into a hardwood block.



Catalog Number	Description	Trim Length	Block Size	Qty / Box
032275	Casting Brush	4"	7¾" x 2¾"	6

Rollers

Bodi Standard Rollers

Bodi Standard Rollers are strong, long-life rollers made with deep grooves and thin fins providing excellent air release. The patented handle, with a rubber modified polypropylene design, is proven least tiring during long hours of use. Also accepts extension handles for hard to reach jobs.

Non-corrosive ¼" frames. Cleans easily in solvent.



Catalog Number	Description	Diameter	Length
300308	Standard Aluminum Roller, w/ Handle	½"	3"
300310	Standard Aluminum Roller, w/ Handle	½"	6"
300320	Standard Aluminum Roller, w/ Handle	5/8"	6"
300322	Standard Aluminum Roller, w/ Handle	¾"	3"
300326	Standard Aluminum Roller, w/ Handle	¾"	6"
300328	Standard Aluminum Roller, w/ Handle	1"	3"
300330	Standard Aluminum Roller, w/ Handle	1"	6"
300324	Standard Plastic Roller, w/ Handle	¾"	3"
300331	Standard Plastic Roller, w/ Handle	1"	3"
300332	Standard Plastic Roller, w/ Handle	1"	6"

Bodi Quik Change Rollers

Bodi Quik Change Rollers are easy to clean, especially in acetone replacement systems. Roller-head is easy to remove--just push on and pull off.

Non-corrosive ¼" steel frames.

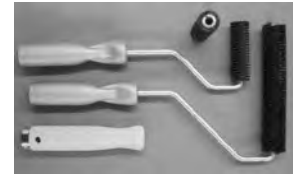
Purchase the complete rollerhead with frame and handle, or just the replacement heads separately.



Number	Description	Diameter	Length
300354	Aluminum Quik Change Roller, w/ Handle	3/8"	3"
300356	Aluminum Quik Change Roller, w/ Handle	3/8"	5"
300358	Aluminum Quik Change Roller, w/ Handle	½"	2"
300360	Aluminum Quik Change Roller, w/ Handle	½"	3"
300364	Aluminum Quik Change Roller, w/ Handle	½"	4"
300366	Aluminum Quik Change Roller, w/ Handle	½"	6"
300368	Aluminum Quik Change Roller, w/ Handle	¾"	3"
300493	Aluminum Quik Change Roller, w/ Handle	¾"	4"
300492	Aluminum Quik Change Roller, w/ Handle	¾"	6"
300362	Plastic Quik Change Roller, w/ Handle	½"	3"
300488	Aluminum Quik Change Roller, Head Only	3/8"	3"
300487	Aluminum Quik Change Roller, Head Only	½"	3"
300402	Aluminum Quik Change Roller, Head Only	½"	6"
300486	Aluminum Quik Change Roller, Head Only	¾"	3"
300485	Aluminum Quik Change Roller, Head Only	¾"	6"
300484	Aluminum Quik Change Roller, Head Only	1"	3"
300483	Aluminum Quik Change Roller, Head Only	1"	6"
300404	Plastic Quik Change Roller, Head Only	½"	3"
300476	Plastic Quik Change Roller, Head Only	1"	6"

Bodi Bristle Rollers (Quik Change)

Pure Bristle Rollers are spirally wound to produce strong laminations and roll out glass smoothly.



Catalog Number	Description	Diameter	Length
300344	Bristle Quik Change Roller, w/ Handle	¾"	3"
300346	Bristle Quik Change Roller, w/ Handle	¾"	6"
300348	Bristle Quik Change Roller, w/ Handle	1"	3"
300350	Bristle Quik Change Roller, w/ Handle	1"	6"
300408	Bristle Quik Change Roller, Head Only	¾"	3"
300410	Bristle Quik Change Roller, Head Only	¾"	6"
300412	Bristle Quik Change Roller, Head Only	1"	3"
300414	Bristle Quik Change Roller, Head Only	1"	6"

Bodi Corner Rollers

High quality Delrin™ and aluminum rollers for quick and easy rolling of corners and ridges. Corner rollers help save time when rolling out non-flat surfaces.



Catalog Number	Description	Diameter	Width*
300478	Aluminum Corner Roller	2"	¼"
300497	Aluminum Corner Roller	2"	3/8"
300477	Aluminum Corner Roller	2"	½"
300340	Plastic Corner Roller	2"	3/16"
300342	Plastic Corner Roller	2"	¼"
300498	Plastic Corner Roller	2"	3/8"
300499	Plastic Corner Roller	2"	5/8"

*Widths listed are the roller head thickness.

Bodi Mini Rollers

For applications requiring a really tiny roller, these are high quality ¼" diameter aluminum rollers on 1/8" small steel frames Disassembles for easy cleaning.



Catalog Number	Description	Diameter	Length
300370	Aluminum Mini Roller	¼"	1"
300372	Aluminum Mini Roller	¼"	1½"
300374	Aluminum Mini Roller	¼"	2"
300376	Aluminum Mini Roller	¼"	3"

Bodi Paddle Wheel Rollers (Quik Change)

With the thinnest fins in the business for excellent air release, these rollers have smooth horizontal (regular) fins. All heads are aluminum.



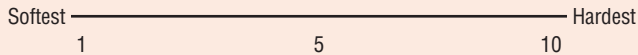
Catalog Number	Description	Diameter	Length
300495	Paddle Wheel Roller, Quik Change, w/ Handle	¾"	3"
300352	Paddle Wheel Roller, Quik Change, w/ Handle	¾"	6"
300481	Paddle Wheel Roller, Quik Change, Head only	¾"	3"
300479	Paddle Wheel Roller, Quik Change, Head only	¾"	6"

Clay Modeling Products

Chavant Industrial Styling & Sculpting Clays

Freeman stocks a complete line of high quality Chavant Modeling Clay products for the professional sculptor as well as the industrial designer.

Hardness Scale



Professional Plasteline

This modeling compound is ideal for the professional sculptor and all school levels. Plasteline is soft, smooth, permanently plastic, reusable and does not require heating. Contains sulphur.



Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027200	Professional Plasteline Modeling Clay	3	Brown	1
027205	Professional Plasteline Modeling Clay	3	Brown	10

Non-Sulphurated Plasteline (NSP)

This modeling clay is similar in performance to the Professional Plasteline except for the fact that it does not contain any sulphur which will minimize curing inhibition when molding with silicone rubbers. The soft formulation can cause some cure inhibition with silicones. Use Plast-Econ Modeling Clay (027208) to eliminate all silicone inhibition.



Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027201	NSP Clay (Soft)	4	Brown	2
027202	NSP Clay (Medium)	7	Brown	2
027203	NSP Clay (Hard)	8	Brown	2

CM-50

This medium-hard formulation is the softest of the styling clays. Excellent adhesion and consistency for producing accurate models. Billets now deaired. Contain sulphur.

Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027214	CM50 Styling Clay	5	Brown	2.5

CM-70

This extra hard styling clay is the hardest of the sulphur-type clays. Popular throughout the automotive industry where surface detail and finish are critical. Contain sulphur.



Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027217	CM70 Styling Clay	7	Brown	2

J-525

This hard formulation provides a slightly harder modeling compound than the CM-50. This results in better edge definition and surface detail. Billets are now deaired. Contain sulphur.

Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027215	J525 Clay	6	Brown	2.5
027207	J525 Clay	6	Brown	6

Le Beau Touche

This clay is an extremely smooth plasteline that does not contain sulphur. Often characterized as having the feel of a water-base clay. Also available in higher melting point formulation.



Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027221	Le Beau Touche Clay	4	Brown	2

Y-2 Klay

Chavant's Y-2 Klay is the hardest product in their line of industrial styling clays. This clay is sulphur free for use with silicone rubbers and is 30-40% lighter than other styling clays for ease of handling larger models.

Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027206	Y-2 Klay	9	Dark Brown	1.75

Plast-Econ Modeling Clays

This soft, sulphur-free modeling clay is ideal for use in styling and engineering shops, development and prototype work, and die and pattern shops. It will not deteriorate with age, is not sticky or greasy and will not crumble. Supplied in 1 lb. wrapped packages.



Catalog Number	Description	Hardness	Color	Net Wt. (Lbs.)
027208	Plast-Econ Modeling Clay	2	Tan	1
027210	Plast-Econ Modeling Clay	2	Green	1
027212	Plast-Econ Modeling Clay	2	Red	1
027213	Plast-Econ Modeling Clay	2	Gray	1

Freeman Industrial Solvents

Freeman Lacquer Thinners

90-1 Fre-Thin Lacquer Thinner is our premium product for the reducing of the 90-1 Pattern Coatings, Wood & Plaster Sealer, and No. 60 Coating. The 45 Lacquer Thinner is an economical alternative for less demanding performance.



Catalog Number	Description	Availability
024155	90-1 Fre-Thin Thinner	Gallon
024210	90-1 Fre-Thin Thinner	5 Gallon
024215	90-1 Fre-Thin Thinner	55 Gallon
024405	45 Lacquer Thinner	5 Gallon
024410	45 Lacquer Thinner	55 Gallon

Freeman Acetone Solvent

Formerly known as Freeman Fillet Cement Thinner, Freeman Acetone is a popular solvent for removing uncured resins, greases, and most wax release agents from work surfaces or molds. This product dries very fast and leaves no residue behind. Excellent solvent for our Freeman Fillet Cement (pg. 78).

Catalog Number	Description	Availability
023210	Freeman Acetone Solvent	Quart
023215	Freeman Acetone Solvent	Gallon
023217	Freeman Acetone Solvent	5 Gallon

Alcohol Solvent

Pure methyl alcohol for use in our alcohol lamps. It is also the best solvent available for cutting flake shellac and various cleaning requirements.

Catalog Number	Description	Availability
027130	Alcohol Solvent	Gallon
027135	Alcohol Solvent	5 Gallon

Mineral Spirits

Excellent solvent for thinning oil based paints and varnishes or for general cleaning purposes. Removes oil and wax residue, grease, and dirt.

Catalog Number	Description	Availability
027129	Mineral Spirits	5 Gallon

Prep Solvent

Prep Solvent is a highly effective degreaser used to remove oily films, release agents, and waxes from cast parts prior to painting. It may also be used on mold surfaces to remove wax or release build up.

Catalog Number	Description	Availability
027240	Prep Solvent	Gallon

Freeman Methyl Ethyl Ketone (MEK)

Formerly Freeman Celastic Solvent, Freeman MEK is an excellent thinning agent for Freeman Fillet Cement as well as Duratec Surfacing Primers. It may also be used for general purpose cleanup.

Catalog Number	Description	Availability
027275	Freeman Methyl Ethyl Ketone (MEK)	Gallon
027280	Freeman Methyl Ethyl Ketone (MEK)	5 Gallon

Freeman Xylene Solvent

Formerly Freeman Pitch Solvent, Freeman Xylene Solvent removes pitch and sap build-up on saw blades, joiner and planner knives, and other wood cutting tools. It is also great for removing solvent based adhesives from the metal discs of disc sanders.



Catalog Number	Description	Availability
027230	Freeman Xylene Solvent	Gallon

Miscellaneous Accessories

Masking & Double-Face Tapes

High-quality masking and double-face tape for various shop uses.



Catalog Number	Description	Width (mm)	Length (yds.)	Rolls / Box
035210	Double Face Tape	18	36	48
035215	Double Face Tape	24	36	36
035220	Double Face Tape	36	36	24
035225	Double Face Tape	48	36	24
035240	Masking Tape	24	60	36
035250	Masking Tape	48	60	24

Kraft Paper

This is a high-quality, 40 lb Kraft paper.

Catalog Number	Description	Width	Length
054076	Kraft Paper - Wax one side	36"	1500'
054078	Kraft Paper - Plain	36"	900'