

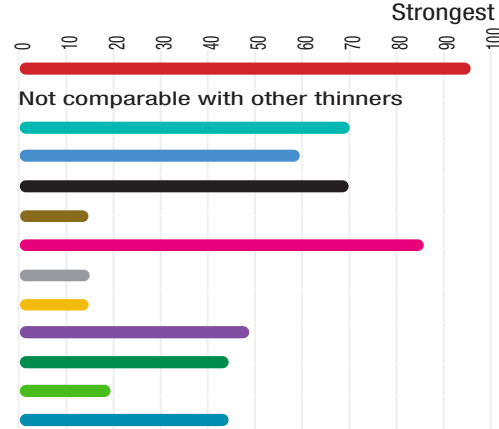


The Brand Preferred by Professionals®

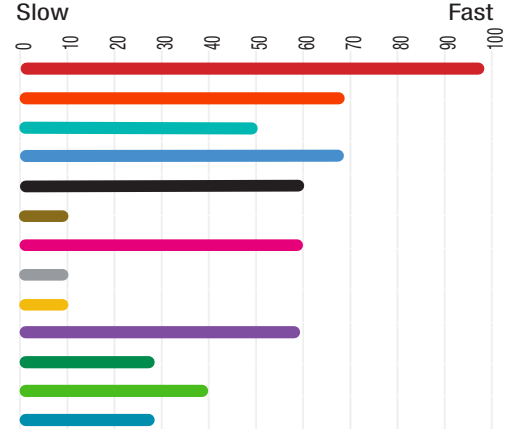
- ACETONE
- DENATURED ALCOHOL
- EPOXY THINNER
- LACQUER THINNER
- PREMIUM LACQUER THINNER
- LOW ODOR MINERAL SPIRITS
- MEK
- ODORLESS PAINT THINNER
- PAINT THINNER
- TOLUOL
- TURPENTINE
- VM&P NAPHTHA
- XYLOL

# PRODUCT USAGE GUIDE

## Comparative Strength



## Comparative Evaporation Rate



**ACETONE:** The strongest and fastest evaporating product in the sundry chemical group. Can be used as a solvent for thinning and cleaning various resins, epoxies, vinyls, lacquers, and adhesives. Will dissolve two-part epoxies before they set up. Too strong to use as a solvent in most coatings. An excellent heavy-duty degreasing agent but will attack many plastics and synthetic fabrics.



**BOILED LINSEED OIL:** Traditional wood finish and preservative, processed to dry faster than Raw Linseed Oil. Can be mixed with alkyd paints and other coatings or used by itself to aid water repellency and to resist weather and retard cracking, checking, and shrinking. Dries in 12 to 18 hours.



**BRUSH CLEANER:** Reconditions old, hard brushes and is harmless to nylon or natural bristle brushes. Cleans brushes used with oil-based and latex paints, varnishes and shellac. Do not use as a paint thinner; it will ruin film properties of coatings. Water-rinsable.



**DENATURED ALCOHOL:** An excellent shellac thinner. It is the only solvent for shellac products and will not thin other coatings. Excellent cleaning solvent; can be dissolved in water. A clean-burning fuel for alcohol fuel stoves and chafing dishes that gives a hot, clean, smokeless, and odorless flame, providing a maximum amount of heat. Do not use in any stove unless specified as an alcohol fuel stove.



**EPOXY THINNER:** A specially formulated product for thinning epoxy coatings only. When using this product, follow directions provided by the epoxy coating manufacturer. Can also be used to clean equipment used in the application of epoxy coatings.



**JAPAN DRIER:** A special blend of lead-free drying agents that accelerates the drying ability of oil-based paint and varnish. This product speeds the drying time between coats of finish, even in damp or cool weather. Use this product with oil-based paints, oil-based enamels and varnishes.



**KEROSENE:** A highly refined, low odor K-1 grade fuel ideally suited for use in kerosene-burning heaters, lanterns and stoves. Crown Kerosene is good for cleaning and removing grease, tar and oil. Meets or exceeds ASTM D 3699 standard for low-sulfur, water clear kerosene.



**LACQUER THINNER:** A general-purpose, medium-dry grade lacquer thinner for use in thinning clear and pigmented nitrocellulose lacquers. An excellent degreasing and cleaning solvent for general shop use. Also recommended for cleaning pure bristle brushes and spray guns where lacquers or other conventional coatings have been used. Do not use to thin automotive lacquers.



**PREMIUM LACQUER THINNER:** A medium-slow evaporating thinner for use with lacquers and most epoxy coatings. It can be used to thin automotive lacquers, including acrylic undercoats and acrylic lacquer topcoats. This product has a slower evaporation rate than traditional lacquer thinner, providing better gloss results during conditions of high heat or humidity.



**LACQUER RETARDER:** This product helps prevent blushing of nitrocellulose lacquers during periods of high humidity. Add small amounts and blend thoroughly until desired results are achieved. Not recommended for use as a lacquer thinner.



**LIQUID DEGLOSSER:** Softens old paint and varnish to produce a slight "tackiness" that helps new finishes bond securely to old. Excellent cleaner that removes heelmarks, smudges, and pencil marks as well as wax, grease and oil. Use to eliminate sanding on smooth surfaces or after sanding to increase bonding and to remove sanding dust. Do not use as a thinner for any type of coating. Do not apply over fresh paints. Allow 30 minutes before repainting but not more than 12 hours.



**LOW ODOR MINERAL SPIRITS:** A superior thinner for use in reducing most brush-applied alkyd and oil paints, varnishes and enamels. Use wherever a paint thinner or mineral spirits are recommended by a paint manufacturer. Cleans brushes, rollers and spray equipment.



**MEK:** A strong solvent similar to Acetone but with a slower evaporation rate. This product lessens but does not entirely remove problems that can occur with inadequate ventilation and concentration of vapor. Superior to Acetone for cleaning and degreasing applications. MEK will dissolve in water.



**MURIATIC ACID:** A 20° Baumé hydrochloric acid solution. Ideal for cleaning and etching concrete, stone, brick, mortar and tile. Also controls pH in swimming pools. It will attack most paints, varnishes, fabrics, metals, plastics and many other materials. Can be diluted with water.



**ODORLESS PAINT THINNER:** The odorless substitute for Turpentine, this product is an excellent artist quality thinner. For use in reducing varnishes, enamels, artist oil colors and most brush-applied alkyd and oil-based paints. Improves brushing qualities. Cleans palettes, brushes, rollers, and spray equipment. Removes dirt and grease from surfaces before painting.



**PAINT THINNER:** The most widely used paint solvent for thinning oil-based paints, varnishes, and enamels. 100% pure Mineral Spirits to assure the highest level of quality and compatibility. Excellent for cleaning brushes, rollers, spray equipment and roller trays.



**RAW LINSEED OIL:** 100% pure oil. A slow-drying natural wood preservative and paint additive of many uses. Can be mixed with alkyd paints and other coatings or used by itself to aid water repellency and to resist weather and retard cracking, checking and shrinking. Refinishes furniture and restores and beautifies wood paneling. Dries in 2 to 4 days.



**TOLUOL:** Also known as Toluene. A fast-drying solvent used for thinning paints, enamels, varnishes and alkyd resins. Often specified as a thinner for specialty paints and coatings because it is too strong for many conventional coatings. Its strength makes it an excellent degreaser and all-purpose cleaner.



**TURPENTINE:** The traditional quality thinner for most brush-applied alkyd and oil-based paints, varnishes and enamels - aids the paint in coating, bonding and penetrating all types of wooden surfaces. It is also used to clean brushes, rollers and spray equipment. Excellent for use with artist oil paints due to its natural gum content.



**V.M. & P. NAPHTHA:** A petroleum solvent that has a higher strength and faster evaporation rate than paint thinner (100% Mineral Spirits). Ideal thinner for most oil-based paints, varnishes and enamels. Can also be used to clean paint, varnish and enamel application tools; always follow manufacturer's directions on the product being used for proper usage. Designed for industrial or professional use.



**XYLOL:** Also known as Xylene. Used for thinning paints, enamels, varnishes and alkyd resins. Similar to Toluol but the evaporation rate is about five times slower. A slower evaporation makes it a superior solvent for certain cleaning and degreasing applications. Use only when coating manufacturer recommends it as an approved thinner.



The Brand Preferred by Professionals®

# PRODUCT USAGE GUIDE



## LEGEND

■ BEST    ▣ GOOD

For more information:  
[www.packserv.com](http://www.packserv.com)  
 800.826.2949

|                          | Thins                      |                        |           |          |                |         |               |         |              |               | Cleans    |   |                               |                           |                           |                         |                                    |                           |                                 |                               | Other                |                                     |                          |            |      |                         |                               |                               |
|--------------------------|----------------------------|------------------------|-----------|----------|----------------|---------|---------------|---------|--------------|---------------|-----------|---|-------------------------------|---------------------------|---------------------------|-------------------------|------------------------------------|---------------------------|---------------------------------|-------------------------------|----------------------|-------------------------------------|--------------------------|------------|------|-------------------------|-------------------------------|-------------------------------|
|                          | Oil-Based Paints or Stains | Latex Paints or Stains | Varnishes | Lacquers | Acrylic Resins | Shellac | Polyurethanes | Epoxies | Oil Finishes | Alkyd Enamels | Adhesives | Oil-Based Paint, Varnish, or Polyurethane Application Tools | Latex Paint Application Tools | Lacquer Application Tools | Shellac Application Tools | Epoxy Application Tools | Painting Tools with Dried Coatings | New Wood before Finishing | Oil Coatings before Refinishing | Degreases Painted Metal Parts | Degreases Bare Metal | Degreases Rubber, Linoleum, Plastic | Etches Concrete or Brick | Fiberglass | Fuel | Exterior Wood Treatment | Prevents Blushing of Lacquers | Accelerates Paint Drying Time |
| Acetone                  |                            |                        |           |          |                |         |               | ▣       |              | ■             | ■         | ▣   | ▣                             |                           | ■                         | ▣                       | ▣                                  |                           | ▣                               | ■                             |                      |                                     | ▣                        |            |      |                         |                               |                               |
| Boiled Linseed Oil       | ▣                          |                        |           |          |                |         |               |         |              |               |           |   |                               |                           |                           |                         |                                    |                           |                                 |                               |                      |                                     |                          |            |      | ■                       |                               |                               |
| Brush Cleaner            |                            |                        |           |          |                |         |               |         |              |               |           | ■   | ■                             | ■                         | ▣                         | ■                       | ■                                  | ■                         |                                 |                               | ■                    | ▣                                   | ▣                        |            |      |                         |                               |                               |
| Denatured Alcohol        |                            |                        |           |          |                | ■       |               |         |              |               |           |   |                               |                           |                           | ■                       |                                    | ▣                         | ▣                               |                               |                      | ▣                                   | ▣                        |            |      |                         |                               |                               |
| Epoxy Thinner            |                            |                        |           |          |                |         |               |         | ■            |               |           |   |                               |                           |                           | ■                       |                                    |                           |                                 |                               |                      |                                     |                          |            |      |                         |                               |                               |
| Japan Drier              |                            |                        |           |          |                |         |               |         |              |               |           |   |                               |                           |                           |                         |                                    |                           |                                 |                               |                      |                                     |                          |            |      |                         | ■                             |                               |
| Kerosene                 | ▣                          |                        |           |          |                |         |               |         |              | ▣             | ▣         | ▣   |                               |                           |                           |                         |                                    |                           |                                 |                               |                      |                                     |                          |            | ■    |                         |                               |                               |
| Lacquer Retarder         |                            |                        |           |          |                |         |               |         |              |               |           |   |                               |                           |                           |                         |                                    |                           |                                 |                               |                      |                                     |                          |            |      | ■                       |                               |                               |
| Lacquer Thinner          |                            |                        |           | ■        |                |         |               | ▣       |              |               |           | ▣   | ■                             |                           |                           | ▣                       | ■                                  | ■                         | ▣                               | ■                             |                      |                                     |                          |            |      |                         |                               |                               |
| Premium Lacquer Thinner  |                            |                        |           | ■        | ■              |         |               | ▣       |              |               |           | ▣   | ■                             |                           |                           | ▣                       | ■                                  | ■                         | ▣                               | ■                             |                      |                                     |                          |            |      |                         |                               |                               |
| Liquid Deglosser         |                            |                        |           |          |                |         |               |         |              |               |           | ▣   | ▣                             | ▣                         | ▣                         | ▣                       | ▣                                  | ▣                         | ▣                               | ▣                             | ▣                    | ▣                                   | ▣                        |            |      |                         |                               |                               |
| Low Odor Mineral Spirits | ■                          | ■                      |           |          |                | ■       |               | ■       | ▣            |               | ▣         |   |                               |                           |                           |                         |                                    | ▣                         | ▣                               | ▣                             | ■                    |                                     |                          |            |      |                         |                               |                               |
| MEK                      |                            |                        |           |          |                |         |               | ▣       |              |               |           |   | ▣                             |                           | ■                         | ▣                       | ▣                                  |                           |                                 | ▣                             | ■                    |                                     |                          | ▣          |      |                         |                               |                               |
| Muriatic Acid            |                            |                        |           |          |                |         |               |         |              |               |           |   |                               |                           |                           |                         |                                    |                           |                                 |                               |                      |                                     | ■                        | ▣          |      |                         |                               |                               |
| Odorless Paint Thinner   | ■                          | ■                      |           |          |                | ■       |               | ■       | ■            |               | ■         |   |                               |                           |                           |                         |                                    | ▣                         | ▣                               | ▣                             | ■                    |                                     |                          |            |      |                         |                               |                               |
| Paint Thinner            | ■                          | ■                      |           |          |                | ■       |               | ■       | ▣            |               |           |   |                               |                           |                           |                         |                                    | ▣                         | ▣                               | ▣                             | ■                    | ▣                                   |                          |            |      |                         |                               |                               |
| Raw Linseed Oil          | ▣                          |                        |           |          |                |         |               |         |              |               |           |   |                               |                           |                           |                         |                                    |                           |                                 |                               |                      |                                     |                          |            |      | ■                       |                               |                               |
| Toluol                   | ▣                          |                        |           | ▣        |                |         | ▣             | ▣       | ▣            |               | ■         |   | ▣                             |                           | ▣                         |                         |                                    | ▣                         | ▣                               | ▣                             | ■                    |                                     |                          |            |      |                         |                               |                               |
| Turpentine               | ■                          | ■                      |           |          |                | ■       |               | ■       | ■            |               | ■         |   |                               |                           |                           |                         |                                    | ▣                         |                                 |                               |                      |                                     |                          |            |      |                         |                               |                               |
| V.M. & P. Naphtha        | ■                          | ■                      |           |          |                |         |               | ■       | ▣            |               | ■         |   |                               |                           |                           |                         |                                    | ▣                         | ▣                               | ▣                             | ■                    | ▣                                   |                          |            |      |                         |                               |                               |
| Xylol                    | ▣                          |                        |           | ▣        |                |         | ▣             | ▣       | ▣            |               | ■         |   | ▣                             |                           | ▣                         |                         |                                    | ▣                         | ▣                               | ▣                             | ■                    |                                     |                          |            |      |                         |                               |                               |

**USAGE GUIDELINES:** To ensure safe and proper usage, carefully read all labeled warnings and directions prior to using any product. Before using a product for thinning, be sure to follow paint and coating manufacturers' instructions to ensure compatibility and performance. Dispose of contents and empty containers according to state and federal regulations.