



**MANUFACTURER & RETAILER / DISTRIBUTOR
OF A WIDE RANGE OF PAINT PRODUCTS:**

**Interior & Exterior Water-Based Emulsion Paints
Alkyd-Based Enamel Paints & Varnishes
Primers, Sealers & Undercoat
Marine Paints & Automotive Paints**

**An Essential Guide
to
surface preparation
and to
the use of Penlac Paint products**

Penlac Paints

The Smart Choice

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Essential Information before paint application

PREPARATION FOR CONCRETE & PLASTERED SURFACES

New Surfaces:

- Ensure that the substrate (wall, surface) is fully cured, for at least three weeks or more
- Correct any surface defects such as cracks and small holes
- Wash with water whilst brushing the substrate. This is to remove all surface latency, salt and any loosely adhering material
- The surface must be clean, fungus-free, dry and sound

A first coat of Penlac's Pencryl Emulsion Primer-White or Penlac Plaster Primer is recommended for a new surface.

Previously Painted Surfaces:

- The surface must be carefully examined to ensure the existing structure and substrate are firm and sound.
- Remove all loose or flaking paints and clean the surface using power washing and/or bleaching solution, paint scraper, sand paper, where appropriate.
- Fill in any cracks, holes or scratches, then sand down the surface to minimize any visible hard edges where paint has been removed and where it remains.
- Wash the surface with water and let it dry before starting to paint. Then apply Penlac's Clear Emulsion Binder or Chlorinated Rubber Sealer over the previously powdery surface after washing with water before applying any paint.

If the surface has been attacked by fungus or moulds, then it has to be thoroughly washed, cleaned, and bleached using "Javell" or use Penlac's Fungicidal Wash and water before applying Penlac's Fungicidal Treatment.

It is advisable to apply one (1) coat of Penlac Clear Binder before applying the two (2) overcoats of paint. For previously fungi-infested painted walls, it is best to apply 2 coats of Penlac's Anti-Fungus Paint after applying one coat of Penlac's Clear Binder.

It is not recommended to use Penlac Universal Undercoat on any Concrete or Plastered Surfaces.

SURFACE PREPARATION FOR WOOD

New Surfaces:

Remove oil or resin deposit, or dirt by scraping or wiping with an appropriate thinner or degreasing thinner.

For Wood Varnishing new surfaces: Apply one coat of Sanding Sealer first before applying the Varnish

For Wood Painting new surfaces: An Undercoat or Primer should be used before painting. Examples of products to use: Universal Undercoat for Alkyd-Based Paint or Two-Pack Acrylic Undercoat for Two-Pack Acrylic-Based paint etc.

Previously Varnished Surfaces:

For Wood Varnishing previously varnished surfaces: It is advisable to 'sand' old surfaces before applying a new coat of varnish.

For Wood Painting previously painted surfaces: Shave the old paint coating in various places using a scraper knife to ascertain the flexibility film and its present adhesion to the substrate. If the old paint coating has a tendency to powder, shatter or disband easily or other defects are observed, it would indicate that total removal of old coating is advisable.

Removal of the old coating can be done using mechanical means, by stripping with Penlac's Paint Remover or by sanding it with an appropriate thickness of sand paper. Then, proceed as per the application stated above for the painting of new surfaces.

SURFACE PREPARATION FOR MILD & GALVANISED STEEL AND ALUMINIUM

New Surfaces:

For Mild Steel New surfaces: Remove loose rust and mill scale by manual or mechanical means. Remove oil or grease by wiping with thinner e.g. Degreasing Thinner. The new surface should be primed without delay with, for example, Penlac Red Oxide Primer followed by oil-based or alkyd-based paint or Epoxy Zinc Phosphate Oxide Primer, followed by any single or two-pack paint.

For Galvanized Steel & Aluminium New surfaces: Prepare the surface by treating it with Etch Solution and Degreasing Thinner. Remove residue and white rust by rinsing with water whilst brushing or sanding with 'medium' sand paper. Avoid the use of power tools because they can damage the galvanizing. The rusting process on metallic surfaces will begin immediately after preparation. So the surface should be primed without delay. Surface defects should be repaired with a suitable 'putty' after priming.

Please Note: Suitable weathered Galvanised surfaces require no pre-treatment except for light sanding with sand paper.

Previously Painted Surfaces:

For Mild Steel Previously Painted Surfaces: Shave the old coating in various places using a scraper knife to ascertain the flexibility film and its present adhesion to the substrate. As with the surface preparation for wood, if the old coating or its substrate tends to powder, shatter, split or disband easily or if other defects are observed, this would indicate that total removal of the old coating is advisable. Removal can be done using mechanical means by stripping with Penlac's Paint Remover, or by flame method or sand blasting. Then proceed as per the procedure specified for the preparation of new surfaces.

For Galvanized Steel & Aluminium Previously Painted Surfaces: Same procedure as for mild steel (see above notes). Then proceed as per specification for the preparation for new surfaces. But in this case, ignore steps which require pre-treatment with cleaning and priming.

SURFACE PREPARATION FOR CONCRETE FLOOR

New Surfaces:

- Ensure that the substrate is fully cured, at least 4 weeks.
- Wash with water whilst brushing to remove all surface latency, salt and loosely adhering material
- The surface must be clean, fungus-free and dry
- A first coat of Penlac Primer is recommended.

Previously Painted Surfaces:

- Examine the surface carefully to ensure that any existing de-bonded, loose or flaking floor paint are removed
- Fill in any cracks, holes or gouges (cavities/scratchings) and then sand the surface to minimize hard edge visibility where paint has been removed and where it remains
- Clean surfaces to remove any dirt, dust, grease or loose materials
- The floor surface must be clean and dry before painting.
- Priming is highly recommended for proper bonding of the overcoats with the undercoat or primer.

SURFACE PREPARATION FOR EPOXY FLOOR COATING

New Surface

- Ensure that the concrete floor is fully cured for at least 30 days (4 weeks)
- Epoxy coating requires a clean and slightly porous surface to adhere properly
- Use **Etch Solution**, then rinse with water to roughen and open the pores of the concrete floor and remove all surface latency. Salt and loosely adhering materials
- Leave the surface to dry completely
- Then apply one coat of **Two Pack Etch Primer**. Dilute with Two Pack Etch Thinner if needed. Let it dry for 24 hours.
- Make sure the temperature is suitable, not too hot or cold before applying the **Two Pack Epoxy coating**. Unfavourable temperatures can cause the Epoxy paint to bubble and peel
- Epoxy is a two-part component mixing and once mixed, you have limited time to apply before it starts to harden.
- The mixing ratio is 4 parts to 1 part Hardener by Volume. Epoxy coating comes in different finishing: Gloss, Satin and Matt.
- Apply two (2) coats of **Epoxy Enamel** paint. Dilute with Epoxy Thinner if needed.
- Epoxy floors take about seven (7) days to dry completely. Light and walkable usage can be undertaken after 24 to 48 hours, but sometimes it might take a bit longer, depending on the outside temperature.

GENERAL APPLICATION TIPS

Please take note of the following tips to avoid painting mistakes:

- Avoid painting over thinly cracked or peeling painted surfaces
- The most common cause of paint application failures is the improper and inadequate surface preparation such as blistering, peeling, staining, chalking and paint contamination
- Avoid painting over dusty, dirty surfaces, old chalk paint or stain, moldy or algae, oily or contaminated surfaces
- Do not paint over new masonry that has not been adequately cured or primed
- Avoid painting in hot, humid areas or painting the second overcoat before the first coat has adequately dried
- Painting with the wrong type of paint that is not suitable for a particular surface must be avoided. Make sure the paint is not too thick nor too thin. Avoid 'overthinning' of the paint just to extend its coverage
- Prolonged storage of paints is not recommended. Always stir and mix the paint well before application.

For further information and advice, please contact our Technical Support Department

A Selection of Penlac Paint Products

Water-Based Emulsion Paints

Usage: On sealed cement substrates such as plaster, concrete and building blocks, panel wood and ceiling boards.

Pencryl Emulsion-Interior/Exterior High quality pure Acrylic Co-Polymer Emulsion paint formulated with high dosage blend of biocides and bactericide for maximum resistance. Highly effective in humid areas. Matt finish.

Anti-fungus Emulsion Int/Ext A general purpose, decorative, for exterior or interior use, high quality paint for concrete, surfaces with built-in fungus resistance particular suitable sub-humid and dry areas. Matt finish.

VIP Satin Emulsion High quality decorative emulsion paint for interior & exterior wall and ceiling. Decorative and protective coating with exceptional performance and long lasting. It has outstanding wash and scrub ability property. Mid-Gloss Satin finish.

Pentop Emulsion Top quality Pure Acrylic Resin emulsion paint with excellent resistance to weathering. Pentop is a decorative and protective coating primarily selected for its exceptional performance, long life and long-term economical advantage. It is recommended for interior and exterior use. Semi-satin finish.

Primers & Binder

Usage: On sealed cement substrates such as plaster, concrete and building blocks, ceiling boards and old chalked coating.

Clear Emulsion Binder An acrylic based, Alkali resistant sealer for application directly onto the substrate. It will penetrate the substrate to provide a basis for good adhesive of subsequent coatings. Clear finish.

Plaster Resistant Primer Used as a primer coat for new plastering. It is slightly textured to provide grip for subsequent textured coating. It is alkali resistant and excellent adhesive to most cemented surfaces. Recommended for exterior and interior use.

Emulsion Primer White An acrylic based, Alkali resistant primer for application directly onto new surface the substrate. It will penetrate the substrate to provide a basis for good adhesive of subsequent coatings. White finish.

Alkyd-Based Enamel Products

Super Gloss Enamel - Good quality Alkyd Based Topcoat for wood and metallic surfaces. Example: doors, furniture, and suitably primed mild steel, galvanized steel etc.

Clear Varnish - Good quality long oil Alkyd Resin Based Varnish for wood. Available in Gloss, Satin and Matt finish

Universal Undercoat White - Good quality Alkyd Resin Based Undercoat with high hiding power, good flow and durability. Suitable for wood.

Red Oxide Primer - An Alkyd Resin Based Primer for Mild Steel. Use as a touch-up primer. General purpose primer.

Wood Primer Grey - Good quality Alkyd based general purpose primer for all types of wood.

Brilliant Leafing Aluminum - Good quality Alkyd Resin-Based coating for metallic and wood surfaces

Red/Green Roof Enamel - Good quality Alkyd Resin-Based paint for galvanized or aluminum roofing sheets

Road Markings Paint - A fast drying Resin-Based Road Markings paint for use on bituminous and concrete roads, as well as markings for Parking spaces

Acrylic-Based Products

Two Pack Acrylic-Based products - A high performance two-pack compliant coating consisting of acrylic modified pigment base and hardener. It is highly suitable for marine use. Can also be used on all kinds of steel, galvanized, aluminum and wood. It provides a touch and durable mirror like gloss film with excellent chemical and solvent resistance coupled with very fast drying

and rapid cure. Such products include: Acrylic Enamel Gloss/ Satin/ Matt, Acrylic Undercoat White, Acrylic Varnish Gloss/ Satin/ Matt, Acrylic Thinner

Epoxy Based Products

Epoxy Based Products - A two-pack components based product. Ideal choice for the protection of surfaces in industrial areas, marine and other highly corrosive environment. Tough film finish, excellent adhesive and resistance to abrasion, salt, water, oil, common solvent and protection against corrosion and mild chemical. Use on primed mild steel, galvanized steel, aluminum, wood etc. Epoxy Enamel will turn yellow and chalk when exposed to sunlight. Products include: Epoxy Enamel Gloss/ Satin/ Matt, Epoxy Undercoat White, Epoxy Varnish Gloss/ Satin/ Matt, Epoxy Thixotropic Adhesive, Epoxy Zinc Phosphate Oxide Primer, Epoxy Tar, Epoxy Tank Coating and Epoxy Thinner.

Chlorinated Rubber-Based Products

Chlorinated Rubber Based Products - Highly recommended as an anti-corrosive coating for mild steel and for new, weathered galvanized steel and wood. Also suitable as a protective coating for cement and concrete surfaces. Exceptional resistance to salt spray, humidity, acids and highly effective against algae and fungus growth. Products include: Chlorinated Rubber Enamel Gloss/ Satin/ Matt, Chlorinated Rubber Zinc Phosphate oxide Primer, Chlorinated Rubber Undercoat White, Chlorinated Rubber Sealer, and Chlorinated Rubber Thinner

Miscellaneous Paint Products

Inateinte. A range of solvent soluble wood stains used for enhancing appearance of wood. Example: Mahogany, Teak, Walnut etc...

Paint Remover. Removes most industrial coating paints and varnishes on wood, brick, metal, fiberglass etc.

Etch Solution- An aqueous solution of weak acid. For etching concrete surface to remove laitance prior of painting.

Fungicidal Wash- An aqueous solution of low toxicity bactericide and bleaching agent. Clean surfaces attacked by fungus and algae growth

Fungicidal Treatment- An aqueous solution of low toxicity fungicides with a broad spectrum of activity against fungus and algae. Treatment of surfaces against fungus and algae prior to application of paint system.

Sanding Sealer- An economical nitro-cellulose /alkyd-based sanding sealer for wood, wooden furniture, plywood etc. It has good filling and sanding properties and provide a smooth and sound base for subsequent coats.

Two pack Etch Primer- A two component vinyl based etch primer designed to promote adhesive of subsequent paint coating on galvanized iron, aluminium and floor surfaces. It should be over coated with an anti-corrosive primer for galvanized iron to ensure optimum protection against corrosion.



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