



PENTA WEATHERSHIELD EXTERIOR EMULSION

PRODUCT DESCRIPTION:

Penta Weathershield Exterior Emulsion is a premium quality acrylic co-polymer emulsion paint, specially formulated for exterior masonry walls. It contains a powerful combination of biocides to protect it against the unsightly growth of fungi and algae, light fast pigments to resist fading by our strong sunshine, and a tough, flexible acrylic co-polymer resin to prevent cracking, flaking and peeling caused by our harsh tropical weather.

Sound, dry exterior masonry surfaces-cement rendering, concrete and clay blockwork, poured concrete. Painting of free-standing and retaining walls without damp-proofing is inadvisable because water-penetration may cause coating failure.

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PRODUCT ADVANTAGES:

- * Water thinnable and clean-up
- * Pleasant smelling
- * Easy to apply
- * Excellent exterior durability
- * Resists fading
- * Resists spoilage by fungi and algae
- * Resists cracking, flaking and peeling
- * Good hiding (opacity)

SERVICE CONDITIONS/FILM PROPERTIES

Moderately resistant to attack by salts in new rendering and similar surfaces, but because it is relatively impermeable, new masonry surfaces must be thoroughly cured and dried out.

Heat Resistance: Must not be used on hot surfaces.

Water Resistance: Will withstand moderately vigorous washing. Use sponge and liquid detergent (no bleach) to avoid damaging the paint film. Substrate must be internally dry to avoid blistering. Resistant to the levels of atmospheric humidity experienced in exterior environments.

TECHNICAL DATA

PRODUCT REF:	0950-Line
GENERIC TYPE:	Acrylic co-polymer
GLOSS/SHEEN:	Slight Sheen
COLOUR RANGE:	White, shelf colours and custom colours.
PACK SIZES:	4, and 20 liters
PRACTICAL COVERAGE:	300-350ft ² /US gal (per coat) depending on texture and porosity of surface.
NO. COATS:	2-3 depending on colour and contrast of paint and substrate
DRYING TIMES:	Touch: 15 mins Recoat: 1 hour
APPLICATION METHOD:	Brush, roller, Conventional Spray and Airless Spray but the prime-coats should be applied by brush.
SPRAY RECOMMENDATIONS:	
Conventional:	Satisfactory through most equipment
Airless:	Typically:
Fluid Pressure:	143 bars (2000 p.s.i.)
Tip Size:	0.38 mm (15 thou)
Tip Angle:	65°
NB:	It is advisable to strain the paint through an 80 mesh filter before spraying. Do not apply Penta Weathershield Exterior Emulsion during wet weather.
THINNER/CLEAN UP:	Water
THINNING:	Only as necessary
Brush and Roller:	Up to 500 ml water to 4 liters paint
Conventional Spray:	Add up to 800 ml water to 4 liters paint
Airless Spray:	Add up to 400 ml water to 4 liters paint
Type of Cure:	Coalescence

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SURFACE PREPARATION

NEW AND UNPAINTED: Ensure that surfaces are dry and cleaned free of all dirt, dust, grease, oil, wax, form oils, parting compounds, fungal and algal growths and other debris and contaminants. Rub down with rubbing stone/brick to remove all loosely adhering particles.

NEW SURFACES: Ensure that surfaces have thoroughly dried out, allowing cement rendered surfaces and cement – mortar pointing to cure for 4-6 weeks and poured concrete for 6-8 weeks. The surfaces must be dry and cleaned free of all dirt, dust, grease, oil, wax, form oils, pointing compounds, fungal and algal growth, and other debris and contaminants. Fill any surface defects (holes, cracks, crevices etc.) with appropriate masonry / wood filler. Rub down with rubbing stone/brick to remove all loose particles.

PREVIOUSLY PAINTED: Remove all loose, flaking, peeling and semi-adherent paint, sanding to a featheredge where necessary, and remove all contaminants, to obtain a clean, firm, sound surface. Fill surface defects as for new surface. Rub down smooth glossy surfaces.

Treatment of Fungus and Algae Infected

Areas: Clean infected areas with a solution of 1 litre household bleach, 1 tablespoon household detergent and 3 litres of water. Leave on for 1 hour, and then rinse off thoroughly. Repeat if necessary. For cleaning painted surfaces use a sponge, and for unpainted masonry use a stiff brush.

Treatment of Efflorescence: This problem appears as white spots or apparent “bleaching” of unpainted or previously painted masonry surfaces. It is caused by drying-out of new plaster/rendering, rising dampness, or water leaks into the walls, which must be rectified before proceeding. Loose efflorescence should be removed by vigorous brushing with a coarse sacking or dry brush, followed by light rubbing with a damp cloth. This should be repeated at intervals of 3-4 days, until it is evident that the efflorescence has ceased. Finally apply one (1) coat Penta Latex Sealer.

If efflorescence is of the smooth, hard type (lime-bloom) it should be lightly abraded to ensure good adhesion.

Aluminium: Clean and etch-prime with Penta Etch Primer.

New Galvanize: Thoroughly degrease to remove oils, greases, waxes etc. by solvent cleaning with Penta Thinner 41 in accordance with SSPC-SP1-82. Remove non oily soils and dirt by water-washing with scrubbing using a nylon brush/broom. Partially soluble contaminants and clear water sensitive chromate coatings may be removed by cleaning with a solution of ammonia or acetic acid, followed by thorough rinsing with clean water. Sanding or brush sandblasting may be used to remove silicate and chromate treatments and to roughen the surface, which is important for ensuring good adhesion.

Weathered Galvanize: Weathering of galvanize for at least 6 months will remove oils and many surface treatments, and provide a finely etched surface suitable for painting. Weathering is unpredictable and the surface must therefore be thoroughly examined to ensure that the oxidized surface layer is uniform and tightly adherent.

Scrub with water and a nylon brush to remove non oily dirt and any water soluble zinc salts, and loose, powdery white rust. Cleaning with dilute solution of ammonia or acetic acid may also be used to remove partially soluble zinc salts, but this must be followed by very thorough rinsing with clean water. Clean if necessary with Penta Thinner 41 to remove any oily contaminants.

Rusted Galvanize: Derust by mopping the whole surface with Penta Deruster 127 diluted 1:2 with water. Allow to derust for 2 to 3 minutes before rinsing thoroughly, by hosing down with water. Do not allow Penta Deruster 127 to dry off.

Chipboard: Single layer, open-surface chipboards may require sanding and overall filling with oil or water-based fillers if a high standard of finish is required, but the surface must be primed first with an oil-based primer such as Penta Wood Primer Undercoat.

NB. Exposed nail and screw-heads, which are not corrosion resistant, must be touched-in with an oil-based primer.

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APPLICATION / SYSTEMS

Material Preparation: Stir paint contents thoroughly before using.

Paint application must not be undertaken in wet weather or if rain or dew formation is imminent.

NB: Do not use emulsion primers for priming new masonry.

NEW AND UNPAINTED SURFACES

Masonry / Gypsum Plaster & Wallboard

(Interior) : The first or primecoat of Penta Weathershield Exterior Emulsion may be thinned with up to 500 ml water to 4 litres paint and should be applied by brush. Top coat with two (2) or three (3) coats of Penta Weathershield Exterior Emulsion, allowing one (1) hour drying between coats. The first coat may require thinning.

Iron and Steel- Prime with 1 coat of Penta Zinc Chromate Metal Primer, Red or Yellow and finish with two (2) or three (3) coats of Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats

Aluminium and New Galvanize – On etch-primed surface finish with two (2) or three (3) coats Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats

Weathered or Rusted Galvanize – Apply one (1) or two (2) coats Penta Zinc Chromate Metal Primer and finish with two (2) or three (3) coats of Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats

Wood/Plywood- Prime with 1 coat Penta Wood Primer Undercoat (if not already primed) and finish with two (2) or three (3) coats Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats.

Fibre-Building Board (Soft board, Medium board and Hardboard)

Unprimed Fire Retardant treated (interior) – Prime with 1 coat Penta Latex Sealer, and finish with two (2) or three (3) coats Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats

Unprimed Non Fire retardant treated (interior) – Prime and finish with two (2) or three (3) coats Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats

Bitumen – Impregnated Insulating Board – Prime and finish with two (2) or three (3) coats Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats.

Chipboard (interior) – For all except single layer/open surface chipboard, prime and finish with 2-3 coats Penta Weathershield Exterior Emulsion. For single layer/open surface chipboard, prime with one (1) coat Penta Wood Primer Undercoat and finish with two (2) or three (3) coats Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats.

NB For interior surfaces, where an emulsion system is recommended, Penta Emulsion Primer White can be used in place of the first or prime coat of Penta Flat Emulsion. NB Exposed nail and screw-heads, which are not corrosion resistant, must be toughed in with an oil based primer.

PREVIOUSLY PAINTED SURFACES

Seal powdery residues and friable surfaces with Penta Acrylic Solvent Based Sealer / Penta Latex Sealer

To bare areas, apply 1 coat Penta Weathershield Exterior Emulsion. The prime coat may require thinning with up to 500 ml water to 4 litres paint. Spot prime bare areas with appropriate primer, and bring forward with extra coats of finish.

Prime old gloss paint surfaces, after rubbing down, with Penta Wood Primer Undercoat.

Finish with one (1) – two (2) coats Penta Weathershield Exterior Emulsion allowing one (1) hour drying between coats.

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HEALTH AND SAFETY INFORMATION

HANDLING PRECAUTIONS

Inhalation: Avoid breathing vapours or spray mists. Work only in conditions of good ventilation. In confined spaces during spraying, wear suitable respiratory mask fitted with dust and fume cartridge.

Eye Protection: Whenever there's a risk of paint or solvent splashing in the eyes, wear protective goggles.

Skin Protection: Avoid skin contact.

FLAMMABILITY

Category: Water-based product

Flash Point: Not applicable.

FIRST AID PROCEDURE

Eye Contact: Flush with water for at least 15 minutes holding lids apart. If symptoms persist seek medical attention.

Skin Contact: Remove contaminated clothing. Thoroughly wash skin with soap and water. Use a good proprietary skin cleanser for removing paint.

Do not use solvents, thinner, petrol etc.

Ingestion: Do not give anything by mouth except water. Do not induce vomiting. Obtain medical attention.

STORAGE: Keep out of reach of children. Do not store by hanging on a hook.

SPILL OR LEAK PROCEDURE: Contain and collect spillage using sand or earth. Do not allow to enter a drain or water course.

FIRE PRECAUTION: Not applicable.

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