

WALL PRODUCTS

P-08

TECHNICAL DATA SHEET

COMPONENTS

1

SOLIDS

33%

VOC

39 g/L

MIX RATIO

Single component

DESCRIPTION

P-08 is a fast-drying, waterborne vinyl acrylic primer-sealer for interior drywall and cured plaster. It seals the paper facing and the joint compound to a uniform porosity, so the finish coat lays down at an even sheen instead of flashing over the taped seams.

RECOMMENDED USES

New drywall: paper facing and joint compound, sealed to an even porosity. Cured plaster, 30 days minimum. Spot priming before and after filling nail holes, cracks and surface imperfections. Repaint work over sound, dulled existing coatings. Flat finish coat where a primer-finish is acceptable.

SUBSTRATES

Gypsum wallboard: new or previously painted, dust-free.
Plaster: hard, slight sheen, pH 10 or below; soft, porous or powdery plaster is not cured. Joint compound and patching compound: spot primed.

LIMITATIONS

Interior only. Not for floors. Not for masonry or metal. Use P-02 or a compatible metal primer on those substrates. Do not apply below 50°F (air, surface and material), and keep at least 5°F above the dew point. High humidity extends dry times, both to touch and to recoat. PROTECT FROM FREEZING: this is a waterborne coating; a frozen container is scrap. Tint with waterborne colorants only, toward the topcoat color to improve hide. Confirm topcoat compatibility before specifying.

ADVANTAGES

Kills Flashing Over Seams

Evens the porosity difference between paper facing and joint compound.

39 g/L VOC

0.33 lb/gal as packaged, non-photochemically reactive.

Thins With Water, No VOC Penalty

Water is not a VOC.

Dry to Touch in 1-2 Hours

Tack free at 4-6, recoat at 12-24: prime and topcoat inside two shifts.

Tintable

Wide range of color options for general use areas.

SURFACE PREPARATION

Surfaces must be clean, dry and free of dirt, dust, grease, oil, soap, wax, scaling paint, water-soluble materials and mildew.

Drywall: Remove all sanding dust. Blow the surface down with clean, dry air and vacuum; dust left on the board is the most common cause of a primer that will not bond. Spot prime before and after filling nail holes, cracks and surface imperfections, so the patch and the board finish at the same porosity. Knife off any protrusions and remove powder or loose particles.

Plaster: New plaster must cure 30 days before priming. Cured plaster is hard, carries a slight sheen and reads pH 10 or below. Soft, porous or powdery plaster indicates improper cure; do not prime it. Prime before and after applying patching compound.

Previously Painted: Remove peeling or scaling paint and sand to feather the edges smooth with the adjacent surface. Dull all glossy areas. Make a test application over unfamiliar coatings to confirm compatibility.

MIXING

P-08 is supplied ready to use. Stir thoroughly before and during application without whipping air into the material. Reduce with clean water up to 15% only if atomization requires it.

APPLICATION

Spray with airless equipment and back-roll with an appropriate sleeve. Apply one coat at 4–6 mils wet, for 1.5–2.0 mils dry. The spray settings below are a starting point; pressure and tip may need adjusting, and equivalent equipment may be substituted.

Tint toward the finish color, with waterborne colorants only. A tinted primer cuts topcoat passes on strong colors. Dry times stretch with humidity and with cool air; both the 1–2 hour touch and the 12–24 hour recoat assume moderate conditions. Allow the full 5 days before the wall is judged, washed or put into hard service. Clean tools with water while the material is still wet.

APPLICATION CONDITIONS & TOOLS

Ambient Temperature	Min 50°F
Substrate Temperature	At least 5°F above dew point
Airless Spray: Fluid Tip	.013–.017
Airless Spray: Pressure	1,500–3,000 psi
Roller Cover	1/4"–3/8" woven, shed-resistant
Brush	3" chip, for cutting in
Reduction	Water, up to 15%
Tool Cleanup	Soap and warm water

COMPONENTS



GENERAL PRODUCT INFORMATION

Chemistry	Wall Products
Color / Finish	Polymer Nation Colors
Number of Components	1
Solids by Volume	33%
VOC (Mixed)	39 g/L
Mix Ratio	Single component
Mixed Viscosity	110 KU (ASTM D2196)
Application Temperature	50°F minimum; at least 5°F above dew point
Reactivity	Non-photochemically reactive

PHYSICAL PROPERTIES

The data below was gathered at temperatures of 72-75°F and 30-50% RH

Gloss @ 60°	Flat
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CURE SCHEDULE

Dry to Touch	1-2 hours
Tack Free	4-6 hours
Full Cure	5 days

COVERAGE & PACKAGING

Coverage Rate	267-400 ft ² /gal at 4-6 mils wet (theoretical; add 10-15% for surface profile, porosity and waste)
Application Thickness	1.5-2 mils dry (4-6 mils wet)
Recoat Window	12-24 hours
Packaging	5 Gallon Kits (Made to order)

TOPCOAT COMPATIBILITY

Run a bonded mock-up of W-24 over P-08 on the actual board and joint compound before the first institutional job is written around it. Report adhesion per ASTM D3359, which is in scope at these film thicknesses, and pull-off per D4541 where the substrate allows. If the mock-up disappoints, position P-08 as the primer under flat and eggshell architectural finishes and specify a bonding primer beneath W-24 on gypsum.

RELATED DOCUMENTS

P-08 Safety Data Sheet (SDS)
Polymer Nation Solution Guide
Polymer Nation Wall system data sheets
Polymer Nation Color Card
Guide Specification, CSI Section 09 96 59, Specialty Coatings
Detail Drawings Library

STORAGE, HANDLING & SAFETY

Store between 60°F and 80°F in a protected, dry location. Shelf life 12 months in unopened original containers. Dispose of material, containers and solvents per federal, state and local guidelines, rules and laws. Before using, carefully read the CAUTIONS on the product label. Refer to the Safety Data Sheet (SDS) before use. FOR PROFESSIONAL USE ONLY. Published technical data and instructions are subject to change without notice; contact your Polymer Nation representative for additional technical data and instructions. Made in the USA with domestic and imported ingredients.

TEST DATA

Test data has been gathered from testing conducted by independent, internal and third party testing. The best way to compare coating performance is by head-to-head independent testing as this removes the numerous variables found between testing standards, equipment and testing agencies.

TYPICAL VALUES

The information here is general information to help our customers determine whether our products suit their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers inspect and test our products before use to satisfy themselves as to the content and suitability for the applications they intend to use our products. Nothing herein shall constitute any warranty expressed or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent to be inferred. The exclusive remedy for all proven claims is the replacement of our materials, and we shall not be liable for incidental or consequential damages. Polymer Nation Chemical Company LLC, 405 Oakwood Ave. Waukegan, IL 60085. All rights reserved.