

WALL PRODUCTS

P-02

TECHNICAL DATA SHEET

COMPONENTS

1

SOLIDS

46%

VOC

96 g/L

MIX RATIO

Single component

DESCRIPTION

P-02 is a high-solids acrylic latex block filler for concrete block, cinder block and precast concrete. Its job is to force material into the open pores and bug holes of masonry and leave a continuous, pinhole-free surface that a finish coat can be applied over uniformly.

RECOMMENDED USES

Concrete masonry unit (CMU): standard, lightweight and split-face block. Cinder block and precast concrete. Poured concrete walls with bug holes and surface voids. Under high-performance topcoats (epoxies and urethanes) as well as architectural finishes.

SUBSTRATES

New and existing CMU, cinder block, precast and poured concrete: clean, dry, sound, fully cured and free of form release agents, curing compounds, laitance, efflorescence and salts.

LIMITATIONS

Not a waterproofer. Do not use below grade as a hydrostatic barrier or in immersion service. Do not apply over existing coatings: a coating already bridging the voids defeats the fill, and peeling may result. Do not apply to damp, wet or smooth, slick surfaces. Surface pH must be at or below 10. Minimum 28-day substrate cure. Do not apply below 50°F (air, surface and material), and keep at least 5°F above the dew point. High humidity extends dry and recoat times at this film build. PROTECT FROM FREEZING: waterborne, a frozen container is scrap.

ADVANTAGES

Fills in One Pass

8-10.5 mils dry from a single spray-and-backroll application on standard block.

Fill and Finish in One Product

High build and finish appearance without a separate surfacer coat.

Ready to Spray

No reduction required. Mix and apply.

Built for High-Performance Topcoats

Carries epoxies and urethanes.

Soap and Water Clean-Up

Waterborne acrylic latex, no flash point, no solvent on site.

SURFACE PREPARATION

Surface must be clean, dry and sound. Remove all oil, dust, grease, dirt, loose rust, laitance, efflorescence, salts, form release agents, curing compounds and other foreign matter. Masonry must be dry before coating, with moisture content at or below 15%.

New Concrete & Masonry: Minimum 28-day cure. Prepare per SSPC-SP13 / NACE No. 6 or ICRI Guideline No. 310.2R-2013 to CSP 1-3. Remove contaminants by sandblasting, shotblasting, mechanical scarification or suitable chemical means per ASTM D4260. Rinse thoroughly and allow to dry completely.

Existing Concrete & Masonry: Prepare as new. Remove oils, grease and chemical contamination with a strong detergent per ASTM D4258. Remove mildew before coating; it is a fungus that will grow through a new coat. Do not apply over smooth, slick surfaces or existing coatings; peeling may result. Any preparation short of total removal of an old coating may shorten the service life of the system.

Surface pH: Test the prepared surface. P-02 requires a surface pH of less than 10.

MIXING

P-02 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 16-20 mils wet, for 7-10 mils dry. Force the material into the pores and bug holes; a block filler that merely coats the face of the block has not done its job. The spray settings below are a starting point; pressure and tip may need adjusting, and equivalent equipment may be substituted.

Two coats give the most uniform surface, and coarse, lightweight or split-face block will usually need them. Brush and roller application may require multiple coats to reach full film thickness and uniform appearance. In wet areas a continuous pinhole-free surface is required before topcoating, or the topcoat has nothing to seal against. Repair cracks, bug holes, air pockets and voids before filling. 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
Airless Spray: Hose	3/8" I.D.
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	White
Number of Components	1
Solids by Volume	46%
VOC (Mixed)	96 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

CURE SCHEDULE

Dry to Touch 1-2 hours

Tack Free 4-6 hours

Full Cure 5 days

COVERAGE & PACKAGING

Coverage Rate 80-100 ft²/gal at 16-20 mils wet (theoretical; add 10-15% for surface profile, porosity and waste)

Application Thickness 7-10 mils dry (16-20 mils wet)

Recoat Window 12-24 hours

Packaging 5 Gallon Kits (Made to order)

RELATED DOCUMENTS

P-02 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.