



Technical Data

PRODUCT DESCRIPTION

Neocrylic HB is a water-based, high-build, anti-carbonation, 100% acrylic coating for above-grade concrete, masonry, stucco and EIFS. It provides excellent durability, fade resistance and resists cracking, peeling and chipping while bridging hair line cracks.

FEATURES

- Available in smooth, fine and coarse textures
- Resists wind driven rain
- Excellent adhesion, hiding power and color retention
- Breathable
- UV resistance
- Carbon dioxide diffusion barrier
- Tough, recoatable finish
- VOC compliant

COLOR

Neocrylic HB is available in 3 bases (pastel, medium and neutral) and designed to be tinted to a wide variety of colors.

PRODUCT DATA

7170 Series Neocrylic HB Smooth

Description	Test Method	Results
Density	ASTM D1475	11.1 lbs/gal
Weight Solids	ASTM D5201	53.7%
Volume Solids	Calculated	38%
Viscosity	ASTM D562	110 KU
VOC Content	EPA Method 24	63 g/L (.53 lbs/gal)

7172 Series Neocrylic HB Fine

Description	Test Method	Results
Density	ASTM D1475	12 lbs/gal
Weight Solids	ASTM D5201	64.5%
Volume Solids	Calculated	49%
Viscosity	ASTM D562	120 KU
VOC Content	EPA Method 24	50 g/L (.42 lbs/gal)

7175 Series Neocrylic HB Coarse

Description	Test Method	Results
Density	ASTM D1475	12 lbs/gal
Weight Solids	ASTM D5201	64.9%
Volume Solids	Calculated	49%
Viscosity Content	ASTM D562	120 KU
VOC	EPA Method 24	55 g/L (.46 lbs/gal)

CURED PHYSICAL PERFORMANCE

7170 Series Neocrylic HB Smooth

Description	Test Method	Results
Resistance to Wind-Driven Rain	TT-C-555B	Passes
Accelerated Weathering, 3,000 hrs	ASTM D4587	Passes
Visual Color Change 3,000 hrs	ASTM D1729	Passes
Chalking, 3,000 hrs	ASTM D4214	Passes
Water-vapor permeance	ASTM D1653	15 perms
Salt Spray (fog) Resistance, 500 hrs	ASTM B117	Passed
Carbon-dioxide Diffusion	PR EN 1062-6	Sd > 100 meters
Flexibility, 1/2" Mandrel	ASTM D522	No Cracking
Dirt Pick-up, % after 12 month exposure	ASTM D3719	Passed
Sand Abrasion Resistance, > 1,000 liters @ 10 - 11 mils	ASTM D968 Method A	Passed
Impact Resistance, at 30 in-lbs	ASTM D2794	Passed
Algal Fungal Resistance	ASTM D3274	No Growth
Flash Point, °F	ASTM D56 Tag Closed Tester	No Flash

YIELD

Texture	Rate, Ft ² /Gal/Coat	Wet Film, Mils	Dry Film, Mils
Smooth	75 - 100	22 - 16	8 - 6
Fine	75 - 100	22 - 16	11 - 8
Coarse	75 - 100	22 - 16	11 - 8

SURFACE PREPARATION

Surface should be clean and sound. Concrete substrates should have a minimum 28 day cure and be free of all bond-inhibiting contaminants.

High-pressure water blast (or abrasive blast on hard, dense surfaces) surface to medium grit sandpaper texture (reference ICRI guide 03732 SP 3).

Repair any holes, spalled and damaged concrete with appropriate NEOGARD repair materials. Remove any protruding concrete accessories and smooth out any irregularities.

Some stains may require chemical removal. Be sure to neutralize the compounds and rinse with clean water.

Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide transition to old paint areas.

Check adhesion of old paint using ASTM D3359, measuring adhesion by Tape Method A.

Treat cracks greater than 1/32" with knife grade or brush grade patching compound. Treat cracks larger than 1/4" as standard sealant joints and fill with appropriate NEOGARD sealant.

MIXING INSTRUCTIONS

Mix Neocrylic HB at slow speed with drill and mixing paddle to ensure uniform color and aggregate disbursement and to minimize air entrapment.

In multi-pail applications, mix the contents of each new pail into the partially used pail to ensure color consistency and smooth transitions from pail to pail.

APPLICATION

Neocrylic HB is meant to be applied as a two-coat system, achieving a total dry-film thickness (DFT) of 12 – 16 mils.

Apply Neocrylic HB by brush, spray, roller, or spray-and-backroll. Spray apply Neocrylic HB coarse for best results.

Maintain proper uniform wet-film thickness (WFT) during application to ensure the performance characteristics desired (see yield rates section).

Always work to a natural break and maintain a wet edge during application.

For uniformity of color and texture, application techniques must be consistent throughout the project. Inconsistent application techniques will produce texture or color variations.

Prime chalky surfaces with 7031-100 water based acrylic primer.

ROLLER: Use a quality 1/2 – 1-1/4" nap roller cover (lamb's wool preferred). Completely saturate the roller and keep it loaded with the coating to build the required mils. Never dry roll. Roll the coating in a consistent fanlike pattern to achieve uniform mil thickness. Cross roll to achieve uniform thickness and maintain a wet edge. Backroll in one direction as stroke variations may result in uneven color and texture

BRUSH: Application by brush is recommended only for small inaccessible areas, e.g., on touch-ups. Use a nylon brush only.

SPRAY: Equipment is available for spraying all grades of Neocrylic HB. For fine and coarse textures, it is necessary

to use a heavy-duty sprayer designed for the application of coatings that contain texture. Gun pressure should be around 30 psi. Backrolling after spray application is strongly recommended to achieve uniform texture and film thickness.

CLEAN UP

Clean all tools and equipment immediately with water. Cured material may be removed by mechanical means.

DRYING TIME

Times assume 70°F and 50% relative humidity.

- To touch: 1 – 2 hours
- To recoat: 2 – 4 hours
- To full cure: 5 days

Lower surface or air temperatures and higher relative humidity will extend the drying time.

PRECAUTIONS

Protect from freezing. Do not apply when the temperature (substrate or ambient) is 40°F or below or is expected to fall below 40°F within 24 hours after application. Do not apply if rain is expected within 24 hours of application.

Do not apply to existing coatings that are not compatible.

Apply a 4 by 4 ft (1.2 by 1.2 m) test area to verify acceptable color, texture and adhesion before proceeding with any project. The test method for measuring adhesion is ASTM D3359, Measuring Adhesion by Tape, Method A. On the 0–5 scale, a minimum adhesion rating of 4A is required.

Proper application is the responsibility of the user. Field visits by NEOGARD personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

PACKAGING

5 gallon pails

STORAGE

Store in unopened containers protected from freezing in a clean, dry area.

HEALTH AND SAFETY

Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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