Novocoat™ HF1200 Epoxy

SELECTION & SPECIFICATION DATA

Type
Two Part Epoxy Resin

Description
Novocoat HF1200 Epoxy is a versatile two-component epoxy resin used as a primer or as a binder for polymer toppings such as slurry, broadcast or trowel-applied flooring, concrete resurfacing/leveling underlayment, and high friction surface (HFS) pavement overlays. (Aggregate not included.)

Among its many uses, Novocoat HF1200 Epoxy binds broadcast aggregate, selected by the Department of Transportation to enhance surface friction or delineate color, to the underlying concrete or asphalt pavement at intersections, entrance/exit ramps, crosswalks, school crossings, bridge surfaces, grades, curves, roundabouts, toll plazas, bike paths, and more.

Features
- 100% solids, no VOCs
- Self-priming
- Versatile resin binder
- Low stress, highly flexible film

Uses
Universal binder for:
- Slurry, broadcast and trowel-applied flooring
- Concrete resurfacing/leveling underlayment
- High friction surface (HFS) pavement overlays

Color
Clear

Finish
Gloss

Primer
Self-priming. May be applied over most types of coatings.

Topcoats
Acrylics, Epoxies, Polyurethanes, Broadcast

Dry Film Thickness (DFT)
40 - 60 mils per coat

Solids Content
99 - 100% by volume

Maximum Dry Temperature Resistance
Continuous: 176°F (80°C)
Non-Continuous: 203°F (90°C)

Limitations
Will lose gloss, discolor, and chalk in sunlight exposure.

SUBSTRATES & SURFACE PREPARATION

All
Surfaces must be clean, dry and free of contaminants.

Concrete or Concrete Masonry Units (CMU)
Concrete must be cured a minimum of 7 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13/ NACE 6. Required surface profile is CSP 3-5. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days.

MIXING & THINNING

Ratio
2:1

Mixing
Power mix separately, then combine and power mix.

Thinning
No thinning needed

Pot Life
20 minutes at 77°F (25°C)
15 minutes at 92°F (33°C)
Not recommended below 60°F (16°C)

Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.

APPLICATION GUIDELINES

Brush
Apply neat using medium bristle brush.

Roller
Short-nap synthetic roller cover with phenolic core.

Squeegee
Spread neat with notched squeegee for broadcast flooring and pavement overlays.

Pin Rake
Use pin rake to gauge slurry thickness when mixed with suitable aggregate.

Trowel
Use trowel to spread when mixed with filler or aggregate for concrete surfacing/releveling or flooring mortar.

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-HF1200A-275IBC-1	Part A Resin	2400 lbs (1089 kg) / 255 gal (964 L)
M-HF1200B-275IBC-1	Part B Hardener	2250 lbs (1021 kg) / 259 gal (978 L)

Theoretical Coverage

26 square feet per gallon at 60 mils WFT
Allow for loss in mixing and application.

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with Armor.

SAFETY

Safety

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	VALUE
Mixed Case	Part A Resin, Part B Hardener (filler or aggregate not included)
Mixed Density	9.2 lbs/gal
Mixed Viscosity	4500 typical
Work Time	10 minutes
Application Temperature	60°F - 95°F (16°C - 35°C)

HFS BINDER SPECIFICATION

PROPERTY	SPECIFICATION
Gel Time, 50 mL volume ASTM C2471	25 minutes
Compressive Strength at 3 hours ASTM D695	1200 psi
Compressive Strength at 24 hours	6500 psi
Tensile Strength ASTM D638	2000 - 5000 psi
Elongation at Break ASTM D638	32%
Hardness, Shore D ASTM D2240	78
Adhesion Strength ASTM D4541	>7000 psi
Permeability to Chloride Ion at 28 days AASHTO T277	<100
Water Absorption at 24 hours ASTM D570	<0.10
Thermal Compatibility ASTM C884	Pass

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