

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Two Part Epoxy Resin
<b>Description</b>	<p>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.)</p> <p>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.</p>
<b>Features</b>	<ul style="list-style-type: none"> <li>• 100% solids, no VOCs</li> <li>• Self-priming</li> <li>• Versatile resin binder</li> <li>• Low stress, highly flexible film</li> </ul>
<b>Uses</b>	<p>Universal binder for:</p> <ul style="list-style-type: none"> <li>• Slurry, broadcast and trowel-applied flooring</li> <li>• Concrete resurfacing/leveling underlayment</li> <li>• High friction surface (HFS) pavement overlays</li> </ul>
<b>Color</b>	Clear
<b>Finish</b>	Gloss
<b>Primer</b>	Self-priming. May be applied over most types of coatings.
<b>Topcoats</b>	Acrylics, Epoxies, Polyurethanes, Broadcast
<b>Dry Film Thickness</b>	40 – 60 mils per coat
<b>Solids Content</b>	99 – 100% by volume
<b>Maximum Dry Temperature Resistance</b>	<p>Continuous: 176°F (80°C)</p> <p>Non-Continuous: 203°F (90°C)</p>
<b>Limitations</b>	Will lose gloss, discolor, and chalk in sunlight exposure.

## SUBSTRATES & SURFACE PREPARATION

<b>All</b>	Surfaces must be clean, dry and free of contaminants.
<b>Concrete or Concrete Masonry Units (CMU)</b>	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

<b>Mixing</b>	Power mix separately, then combine and power mix.
<b>Thinning</b>	No thinning needed.
<b>Ratio</b>	2:1
<b>Pot Life</b>	<p>20 minutes at 77°F (25°C)</p> <p>15 minutes at 92°F (33°C)</p> <p>Not recommended below 60°F (16°C)</p> <p>Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.</p>

## INSTALLATION GUIDELINES

<b>Brush</b>	Apply neat using medium bristle brush.
<b>Roller</b>	Short-nap synthetic roller cover with phenolic core.
<b>Squeegee</b>	Spread neat with notched squeegee for broadcast flooring and pavement overlays.
<b>Pin Rake</b>	Use pin rake to gauge slurry thickness when mixed with suitable aggregate.
<b>Trowel</b>	Use trowel to spread when mixed with filler or aggregate for concrete surfacing/releveling or flooring mortar.

## PACKAGING & ESTIMATING

<b>Theoretical Coverage</b>	<p>26 square feet per gallon at 60 mils WFT</p> <p>Allow for loss in mixing and application.</p>
<b>Package Sizes</b>	<p>Clear, 3-gal (11.6 L) Kit</p> <ul style="list-style-type: none"> <li>- Part A Resin Clear, 2 gal (7.7 L) Pail</li> <li>- Part B Hardener, 1 gal (3.9 L) Pail</li> </ul> <p>Item #: M-HF1200-3GLKT-01</p> <p>Clear, Bulk, Parts A and B sold separately</p> <ul style="list-style-type: none"> <li>- Part A Resin Clear, 255 gal (965 L) IBC Tote</li> <li>- Part B Hardener, 259 gal (979 L) IBC Tote</li> </ul> <p>Item #: M-HF1200B-275IBC-1</p>

<b>Storage &amp; Shelf Life</b>	<p>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.</p> <p>If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.</p>
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## 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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