



Global EcoTechnologies, inc.

ENDURA-FLEX® 1200P EPOXY PRIMER SEALER

PRODUCT DATA

PRODUCT DESCRIPTION

EF-1200P is a solvent-free, two-component epoxy primer sealer that offers fast overcoat times, good penetration and wetting, for priming and sealing of steel and porous substrates exposed to the chemical and physical environments found in the water and waste treatment industries.

EF-1200P is designed primarily as a compatible primer to be topcoated with EF-1988 elastomeric polyurethane where a high property primer is desired. If a stand alone epoxy coating as a barrier coating is required, refer to EF-1200PW.

EF-1200P also makes an excellent non-shrink epoxy surfacer when mixed with chemically inert, ceramic EF-1200F filler material supplied as a separate component (see data sheet).

This multi-use product may be sufficiently thickened for use as a trowel grade filler/surfacer on such surfaces as degraded concrete.

Contact your Endura-Flex® representative for specific recommendations.



ENDURA-FLEX® 1200P
 Drinking Water System Components
 In Accordance With
 Standard NSF/ANSI 61-5
 When Properly mixed (2:1)
 ENDURA-FLEX® 1200P (A:B)

TECHNICAL DATA

NOTE: GET®, ENDURA-FLEX®, ENDURA-TUF®, ECOSYSTEM®, ARE TRADEMARKS OF GLOBAL ECOTECHNOLOGIES, INC.

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

Components..... Two (Base, Activator)
 Volume of Solids..... 100%
 Mix Ratio..... 2:1 by volume
 V.O.C. content, ASTM D-2369-81..... 0 gm/l
 Coverage 1604 ft²/mil/gallon
 Thinner None required
 Clean-up..... MEK

Blast profile..... 3-4 mils, angular

Dry film thickness:

DFT per coat.....5 mils
 Stand-alone coating (EF-1200PW)..... 15-20 mils
 Primer only for steel..... 2-3 mils
 Primer only for concrete3-4 mils

Packaging:.....2-A & 1-B
3-gallon
15-gallon
155-gallon
 EF-1200F filler.....15# pail

DOT/Flash point.....200° F
 Color.....Transparent
 Finish.....Satin

Curing times:

To topcoat minimum.....When wet or tacky to touch
 Maximum..... 12 Hours @ 70° F
 With 1200F filler.....Up to 4 days
 Cure for service.....72 Hours @ 70° F
 Minimum application temperature.....50° F

Pot life.....20-30 Minutes @ 70° F
 Shelf life.....One year (12) months at 75° F
in sealed, unopened containers

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EF-1200P EPOXY APPLICATION DATA

SURFACE PREPARATION:

All welding and other such repairs to the surface should be complete before beginning surface preparation. Surfaces must be clean, dry (at least 5°F. above dew point) and free of dirt, dust, oils, grease, and other such substances, which can contaminate the surface. Vacuuming is recommended for at least the tops of all horizontal and sloped surfaces.

Carbon steel surfaces subject to immersion service require abrasive blast cleaning to a minimum "Near-White Metal Blast" (SSPC-SP10) condition and produce an anchor profile measuring 3-4 mils.

Non-ferrous surfaces require abrasive blasting to remove oxides and produce a surface etch measuring 3-4 mils. Visual cleanliness and surface roughness less than that provided for carbon steel risk compromising the coating integrity.

Concrete and masonry surfaces should be dry (per ASTM D-4263) and require the recognized 28-day cure to allow sufficient compressive strength to develop unless such values are verified sooner to the satisfaction of the owner. Clean Surfaces by water blasting (3,000 psi min.) or abrasive blasting to etch surface and remove deteriorated concrete, loose particles, powders, and laitance to sound substrate. Sharp edges and protrusions are to be removed using hand or power tools.

MIXING/APPLICATION:

Add Component B into Component A (MIX ONLY IN VOLUME RATIO OF 2A: 1B) and power agitate until completely uniform in consistency. Induction time is not required. Use immediately after mixing, as pot life is approximately 20 – 30 minutes. **Note:** EF-1200P is sensitive to heat and moisture. High temperatures and/or high humidity will reduce the pot life and accelerate the cure. Low temperature and/or low humidity extend the cure time. **DO NOT ALLOW MIXED MATERIAL TO STAND IN EQUIPMENT.**

Apply even wet coat. Assure all surfaces are covered and uniform. EF-1200P is transparent and designed as a primer and designed to be spray applied at 2 to 3 mils per coat. Use wet film gauge during application to assure uniform thickness. Plural component, airless, or conventional spray equipment may be used. Brush and roller is also a suitable application method if practical. Clean equipment immediately after use.

RECOAT & REPAIR:

Cured material, material exceeding stated recoat interval or material exposed to elevated temperatures will require abrading the surface to assure adequate intercoat adhesion.

FILLING AND SURFACING MATERIAL:

For filling voids and surfacing irregular surfaces, EF-1200P can be thickened into a trowel grade material by adding EF-1200F to achieve a very high film build. *For additional sag control, the Contractor may add small amounts silica flour (i.e., Cabosil[®]) or other approved filler materials not to exceed 2 percent of mixed epoxy weight without written recommendation from the material manufacturer.*

ONLY add EF-1200F filler to properly mixed EF-1200P. Add filler immediately, as it will extend pot life of mixed epoxy. By our experience, two volumes of filler added to one volume of mixed EF-1200F epoxy will yield two volumes of EF-1200PF epoxy surfacer mixture with a pot life of approximately 1 ½ hours and capable of filling or hanging a thickness of ¼ inch. Such a mixture also resulted in enough surface profile from a troweled smooth surface to show very good intercoat adhesion when topcoated with EF-1988 after 4 days resulting in "pull-off" adhesion greater than the concrete and in excess of 500 psi on blasted steel. Experience also shows that addition of filler amounts up to three volumes to one volume mixed EF-1200P shows good adhesion to the substrate, while filler amounts greater than three volumes were hard and suitable for filling only, but not do not show acceptable adhesion to the substrate for immersion.

From the above trial experience the Contractor can adjust EF-1200P/EF-1200F mix volumes within limits of pot life, desired thickness and substrate adhesion for a variety of filling and surfacing requirements (more filler=more thickness per deposition). One volume of EF-1200F filler will displace or add ½ volume to EF-1200P Epoxy.

MAKE SURE MATERIAL SAFETY DATA SHEETS FOR THESE MATERIALS ARE READ AND UNDERSTOOD BEFORE USING!

Wear protective garments, goggles, skin creams, and respirators properly fitted and of the type for the work being performed. Follow precautions in (OSHA) CFR Title 29 and other applicable health and safety standards. See your safety equipment supplier for most current equipment available. Use only fresh air supplied properly fitted respirators for "confined space" areas.