

PRODUCT DESCRIPTION

High Performance Epoxy Primer (PEP™) represents a cutting-edge epoxy resin system designed for priming and repairing concrete surface, priming surfaces for FRP strengthening as well as epoxy flooring installation, particularly tailored for application on damp or wet substrates. PEP™ boasts a transparent composition, offering low viscosity and 100% solids formulation, ensuring optimal flow, easy application, and superior adhesion properties. Its low viscosity facilitates rapid surface wetting, effectively penetrating minor cracks and imperfections. This primer has quick curing with minimal odor. PEP™ finds versatile applications, including FRP structural member strengthening and retrofitting across various sectors.

PRODUCT FEATURES

- High adhesion and high stability to poorly prepared substrate and a wide range of substrates
- Excellent adhesion for FRP laminate and fibers
- Ultra strong bond to all kind of repairing mortar
- Deeply penetrating in concrete cracks
- Top-graded anti-corrosive primer
- Improves chemical resistance
- Very low viscosity
- Uniform hardening and easy leveling
- Excellent workability
- Fast curing

PRODUCT USES

- As a primer under the carbon wrap systems and laminates
- As a primer for all repair mortars
- Filling spalls, cracks and bug holes
- Stabilization of porous structures
- Coating dry and moist concrete surfaces
- Primer for industrial epoxy floor coatings
- Appropriate undercoat for fire-resistant coatings installation

TECHNICAL DATA

Mixing Ratio (Parts A:B)	4:1
Density at 20°C	1.07 kg/L
Pot Life	1-3 hours at 16 - 27°C
Tensile Strength	54.0 MPa
Tensile Modulus	2.11 GPa
Flexural Strength	104.6 MPa
Flexural Modulus	53 GPa

HOW TO USE

SURFACE PREPERATION

The quality of Epoxy primer systems in retrofitting projects can be significantly impacted by substrate preparation. It is imperative to thoroughly clean all surfaces, removing any dirt, grime, dust, curing compounds, oils, grease, waxes, and other contaminants that may result in voids behind the systems. Utilizing an industrial vacuum cleaner is essential for dust and dirt removal. Surfaces should



High Performance Epoxy Primer - PEP™

undergo grinding, sandblasting, shot blasting, pressure washing, or other mechanical methods to achieve a uniform concrete substrate. If water is used in preparation, it must be allowed to dry for 24 hours. It is crucial to ensure that concrete surfaces are completely dried or cured before proceeding.

MIXING

Surface of all the contaminated elements must be cleaned thoroughly. Mix part A and B together with a low-speed mixer. Epoxy should always be mixed in an amount that can be used and consumed within a certain time frame of effectiveness.

APPLICATION

The applying tools for this product include brush, roller, or trowel. Ensure an even coat is applied across the entire surface to prevent sagging. Using a roller aid in removing air bubbles and promoting strong bonding between the primer and substrate. Coverage rates will vary depending on surface porosity. Typically, one coat is adequate for sealing substrates when using epoxy primer as a primer, while two coats are necessary for achieving a uniform sheen when used as a sealer/finish. Additionally, two coats may be needed for sealing lightweight concrete or highly porous surfaces.

CLEANUP

Clean all tools and application equipment with water immediately after use. Hardened and/or hardened material can only be removed mechanically.

STORAGE

The pack should be kept away from damp places and stored in a moisture free environment.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

PEP™

High Performance Epoxy Primer

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.