



Epomatrix

Two-component thixotropic epoxy adhesive for structural bonding and waterproofing systems

Drykos® **Epomatrix** is a structural two-component epoxy adhesive with a thixotropic, spreadable consistency, designed for bonding, fixing, and reconstruction operations on building substrates. Once hardened, the product develops high mechanical and adhesive performance, making it suitable for both structural applications and waterproofing and sealing interventions.

Thanks to its excellent adhesion to multiple substrates, including low-porosity materials and plastic surfaces, Drykos® **Epomatrix** represents the ideal solution for bonding waterproofing strips from the Drykos® range, particularly Drykos® **Flexstrip 250**, with which it creates continuous and durable watertight systems.

CHARACTERISTICS

Main characteristics

- High adhesion to concrete, steel, wood, PVC, and plastic materials
- Thixotropic consistency, applicable also vertically and overhead
- High mechanical resistance (compression, shear, and tension)
- Excellent chemical resistance (acids, bases, salts, hydrocarbons)
- Excellent workability and ease of application
- High durability over time
- Suitable for certified structural applications
- Perfect compatibility with Drykos® **Flexstrip 250** for joint waterproofing

Fields of use

- Rigid structural bonding (béton plaqué) between concrete and steel
- Anchoring and fixing of metal elements, connectors, and tie rods
- Reconstruction of concrete joints and flooring
- Sealing of through-holes and formwork spacers
- Repair of cracks and reconstruction of missing parts
- Bonding of prefabricated elements and building materials
- Fixing of waterproofing strips (Flexstrip 250)
- Creation of waterproofing systems for joints subject to hydraulic pressure

SPECIFICHE TECNICHE

Packaging

2 kg kit: component A 1 kg
+ component B 1 kg

10 kg kit: component A 5
kg + component B 5 kg

Color

Gray.

Appearance

Thixotropic paste.

Shelf life

12 months from production date.

Storage conditions

Store in original intact packaging, in a cool and dry environment, protected from frost, humidity, and direct exposure to sunlight. Opened containers must be used immediately to avoid alterations in product characteristics.

APPLICATION DATA

Theoretical consumption

~ 1.6 kg per dm³ of volume to be filled

Thinner

Epoxy.

Application temperature

Minimum +10 °C | Maximum +35 °C

APPLICATION INFO

Substrate preparation

Substrates must be solid, clean, dry, and free of dust, oils, grease, loose parts, or contaminants that could compromise adhesion. Concrete surfaces must be adequately prepared by scarifying, milling, or shot blasting, followed by thorough dust removal. Metal elements must be prepared by sandblasting until a clean surface free of oxidation is obtained. Do not apply on damp or wet substrates or in the presence of free water.

Product preparation

Drykos® **Epomatrix** is a two-component product that must be prepared by thoroughly mixing component A with component B in the specified catalysis ratio (1:1 by weight). Mixing must be performed using a low-speed mechanical stirrer or manually until a homogeneous, uniform-colored mixture free of lumps is obtained. The product must be used within the workability time (pot life); avoid preparing quantities greater than those applicable in the available time.



Application

Drykos® **Epomatrix** must be applied to adequately prepared substrates using a metal spatula or trowel, ensuring a uniform and continuous distribution of the product on the surfaces to be bonded. After mixing the two components, the product must be applied within the workability time (pot life), avoiding interruptions or restarts that could compromise the continuity of the adhesive system. The application thickness must be sufficient to ensure complete contact between the surfaces and to compensate for any irregularities in the substrate.

In the case of structural bonding (béton plaqué), the product must be applied to both surfaces to be joined, subsequently exerting uniform pressure until complete adhesion is achieved, avoiding the formation of voids or discontinuities.

For applications in joint waterproofing systems with Drykos® **Flexstrip 250**, Drykos® **Epomatrix** must be spread on the sides of the joint with an adequate and constant thickness (indicatively not less than 2 mm). The strip must be positioned on the fresh resin and pressed uniformly until complete contact with the substrate is achieved and the product emerges through the lateral perforations, a sign of correct adhesion. Subsequently, an additional layer of resin must be applied to the edges of the strip to protect it from mechanical stress and ensure the continuity and monolithicity of the waterproofing system.

Mechanical and adhesive performance develops progressively over time, reaching significant values after the first 24 hours and completing after approximately 7 days at room temperature. During the hardening phase, the system must be protected from water, rain, and contaminants.

Other indications

- Do not apply on inadequately prepared substrates
- Do not use in the presence of humidity
- Do not apply on dusty, weak, unstable, or poorly cohesive substrates
- Do not apply on damp substrates or those subject to rising capillary moisture
- Protect the product from water and atmospheric agents for the first 24 hours after application
- Respect the indicated over-application times
- Use the entire quantity of the components to avoid incorrect mixing ratios
- Keep the mixed product away from heat sources
- Do not dilute the product with water
- For anything not covered, contact Technical Support at +39 0171 1874992 or write to info@drykos.com

TECHNICAL PERFORMANCE

Characteristic	Test method	Standard requirements	Performance
Specific weight			1.6 kg/L
Pot life			60 minutes
Mixing ratio			100 : 100 by weight
Elastic modulus	EN 13412		4.1 GPa
Shear strength	EN 12188		16.1 MPa
Compressive strength	EN 12190		55 N/mm2
Glass transition temperature	EN 12614		> 60 °C
Direct tensile adhesion on concrete	EN 1542		> 3 N/mm2
Direct tensile adhesion on PVC	EN 1015-12		> 7 N/mm2



Characteristic	Test method	Standard requirements	Performance
Direct tensile adhesion on Flexstrip 250	EN 1015-12		> 8 N/mm ²
Reaction to fire	EN 13350-1		B-s1,d0

ENVIRONMENT AND SAFETY

Safety

For information and advice on safety, handling, storage, and disposal, users of the product must refer to the most recent version of the Safety Data Sheet, which provides information on the physical, ecological, and toxicological characteristics of the product. If necessary, request the updated Safety Data Sheet by contacting Customer Service at +39 0171 1874992 or writing to info@drykos.com. Product compliant with the requirements of Regulation (EC) No. 1907/2006 (REACH) and Annex XVII, entry 47 and subsequent amendments and additions.

Use

Product for professional use.

WARRANTIES AND LEGAL NOTES

Should the product be defective, the liability of Drykos S.r.l. shall be limited solely to its replacement. The information and instructions in this technical data sheet regarding the application and end-use of the products are provided in good faith and reflect current scientific and technical knowledge; however, they do not constitute any guarantee or assumption of liability regarding the final outcome of the work involving their use. Given the variety of operating conditions and external factors beyond the control of Drykos S.r.l. during execution, it is the user's responsibility to verify the product's suitability for the specific application, assuming all risks and liabilities. Drykos S.r.l. reserves the right to modify the properties of its products at any time. Always refer to the most recent version of the product's technical data sheet. This edition cancels and replaces all previous versions. The latest updated technical data sheets are available on our portal at www.drykos.com.



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