

EURIPARE ES 6

EPOXY ADHESIVE FOR VARIOUS APPLICATIONS

DESCRIPTION

EURIPARE ES 6 is a solvent-less epoxy resin adhesive, presented in a paste consistency, meticulously formulated to enhance structural bonds among various materials such as metal, bricks, wood, and concrete, EURIPARE ES 6 has a good chemical resistance along with negligible shrinkage.

USES

- Versatile adhesive for bonding construction materials like concrete, brick, ceramic, clay tiles, and metals
- Thixotropic nature enhances suitability for non-sagging vertical applications
- Ideal for fixing tiles, brick slips, chemical-resistant grouting, and GRC panel bonding
- Very good adhesive for bonding plastic and metal road reflectors and signs (Road Studs).
- Well-suited for overhead anchoring applications in tunnels
- Works as a base coat for epoxy and polyurethane coating

ADVANTAGES

- Formulated to provide high bond and slant/shear adhesion to a wide range of construction materials
- Extended working time, enabling use at elevated temperatures.
- Exhibits excellent chemical and aging resistance
- Smooth, thixotropic properties of EURIPARE ES 6 make it suitable for application on vertical and overhead surfaces
- Well-suited for patching surfaces of anchoring applications

STANDARD

EURIPARE ES 6 complies with the following standards: ASTM C881, meeting the standards for Type II, Grade 2, and Class C.

TYPICAL PROPERTIES

Appearance	Resin: White, viscous liquid Hardener: Black, viscous liquid
Specific Gravity (@20°C)	1.76 ± 0.02
Viscosity (@30°C)	Thixotropic
Recommended Thickness	Up to 3 mm
Drying Time	Pot Life: 70 minutes (@10°C); 35 minutes (@30°C) Initial Cure (@20°C): 10 hours Final Cure (@20°C): 48 hours
Bond Strength (BS6319, Part 4, Dry Concrete)	50 MPa
Compressive Strength (BS6319, Part 2C190)	80 MPa
Flexural Strength (BS6319, Part 3)	35 MPa
Compressive Modulus of Elasticity	15 kN/mm ²

APPLICATION

Surface Preparation

Prior to application, ensure that all concrete surfaces are clean, dry, sound, and free from oil, grease, and other contaminants.

The concrete should be at least 7 days old.

To remove surface laitance, consider acid etching or mechanical grinding.

For metal surfaces, grit blasting is recommended to achieve a rust-free, bright steel finish.

If necessary, degrease the metal surface.

For plastic surfaces intended for bonding, ensure thorough degreasing and roughening before applying the adhesive.

Application Instructions

For bonding applications, employ a spatula, notched float, or trowel to apply thin 2 mm bond coats of EURIPARE ES 6 for tiles, ceramics, or mosaics.

In the case of slip bricks, butter the back of the slip with 2 mm - 3 mm of EURIPARE ES 6 before placing it with a twisting motion.

For fixing dowel bars, bolts, and road reflectors, pour or pump EURIPARE ES 6 into place to achieve a 50% - 70% fill before inserting the article.

MIXING

Mixing Ratio: 1:1

Combine the contents of the hardener and resin packs using a mechanical paddle/drill.

Mix thoroughly until a uniform color is achieved. When working with smaller quantities, ensure precise proportioning for optimal results.

Chemical Resistance:

Typical data for solutions at 20°C are provided below:

Solution	EURIPARE ES 6
Caustic Soda 30%	E
Sulphuric Acid 5%	G
Lactic Acid	P
Kerosene	E
Hydrochloric Acid 10%	E
Petrol	E
Toluene	D
Ethanol	P
Sewage 30%	E
Oxidizing Agents	D
Salt Solutions and Sea Water	E

Key

E = Excellent; no change

G = Good; slight attack

P = Poor; heavy attack

D = Destroy

COVERAGE

The coverage of EURIPARE ES 6 is 3.5 kg/m².

PACKAGING

EURIPARE ES 6 is supplied in 5 kg kits.

STORAGE

EURIPARE ES 6 should be stored and maintained in closed containers, protected from extreme temperatures. Ideally, the product should be stored at a temperature of 15°C - 25°C during application. Approximately 24 hours before use, store it in an area suitable for achieving this temperature range.

The shelf life of EURIPARE ES 6 is 12 months from the date of production.

HEALTH AND SAFETY

For more information, please check the Material Safety Data Sheet.

CONTACT

For information regarding the licensee or manufacturer for ECA, please contact us at techsupport@alfaihaengineering.com.

DISCLAIMER

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.