TECHNICAL DATA SHEET

REVISED: 09/05/2023

EPOXY ECO

ADHESIVES FOR VINYL, LVT AND RUBBER FLOORINGS
ADHESIVES FOR SPORTS FLOORINGS

Structural adhesive from bi-component (A+B) epoxy-polyurethane. EOXY ECO was created for absorbent grounds, for non-absorbent grounds or those where there is humidity, cement, stone, ceramic, metallic etc. Suitable for indoor and outdoor use on rubber flooring, PVC and for all types of cushioned and textile floorcovering, especially in areas of high temperature or in direct sunlight, or where there is mechanical stress due to forklifts or other lifting machines, or where there is frequent washing, and suitable for athletic tracks and general-purpose sports flooring.

EPOXY ECO is suitable for fixing:

- Athletic tracks and sports flooring in rubber on asphalt, indoor cushioned sports flooring
- Anti-shock flooring from recycled rubber on asphalt
- Pure and blended PVC on the roll or as tiles
- Foam backed or laminated PVC
- LVT
- Semi-flexible vinyl tiles (VCT)
- Carpets with any kind of backing (PVC or polyurethane foam, natural jute or Action-Bac etc)
- Linoleum with any type of backing, polyurethane-based flooring.

PREPARATION OF THE BASE

The substrates should be dry, flat, mechanically resistant, dust-free, clear of any cracks and traces of materials such as wax, paints and oils which could affect adhesion. It is important to check the humidity of the substrate before fixing the flooring: this should be less than 2% on concrete grounds and no higher than 0.5% on gypsum or anhydrite-based screeds, making sure that there is no rising damp. Floating screeds on illuminated or underheated floors should be insulated using a waterproof membrane. Concrete bases with a higher humidity content, too thin or dusty should be treated with our PRIMER PU. For fixing on top of existing flooring such as ceramic or marble, adhesion can be improved by sanding or scoring the surface and removing any residue.

PREPARATION OF THE PRODUCT

Combine the hardener (Component B) with the resin base (component A) and mix the two components (0.6kg component B with 9.4kg component A). EPOXY ECO must be mixed continuously at low speed for around 2 minutes using an electric mixer to avoid overheating (about 250/500 rpm). Important: the ratio between the resin (component A) and the catalyst (component B) must be strictly respected. Any change to this will affect the grab of the product.

LAYING THE FLOORING

Follow the manufacturer's instructions for laying the flooring. Lay it as quickly as possible so that the structure of the adhesive is still fresh: lines of adhesive must be squeezed. Avoid the formation of air bubbles by pressing the flooring from the centre to the edges to achieve an even distribution of adhesive across the rear of the flooring. Avoid stretching at the edges. A few minutes after laying the flooring should be rolled or pressed again. Whenever the ground is not perfectly level, weigh the flooring down with sandbags or other material on those areas, until EPOXY ECO curing occurs (12-24 hours). Care should be taken where the flooring is to be laid outdoors where the temperature is high or where there is a high temperature gradient. Apply at the lowest temperature. Flooring laid using EPOXY ECO can be walked on after 12-24 hours. Full curing in temperatures of +23°C occurs in 4/5 days. Before commencing laying, make sure that the flooring or covering and the substrate are acclimatised to the correct temperature.

ACM Italy S.r.l. Viale Enrico Mattei, 8 - 20010 Casorezzo (Milano) - Telefono +39 02 90361148 r.a. - Fax +39 02 9013173 - e-mail: info@acm-italy.com

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COVERAGE

Coverage varies according to the evenness of the substrate and the type of backing of the flooring (and therefore on the type of spatula used): from 800-1000g/m2

ADVICE

- Always check the humidity of the substrate and the humidity of the flooring to be laid by using appropriate instruments
- Mix the adhesive in an area where it can be applied to the product to be laid within the open time (about 70 minutes) ensuring adequate coverage of the backing
- Do not apply in areas of excessive humidity
- Keep air circulating during application of the product
- Do not apply to fresh asphalt (wait at least 20 days)
- Do not apply to bituminous surfaces where there is a risk of oil deposits
- Do not apply on concrete which is not completely cured or is damp.

PACKAGING

PRODUCT CODE	WEIGHT	UNIT	TYPE OF PACKAGING	PCS IN BOX
20031-N	10	kg	Bucket	1

STORAGE

The product is guaranteed in its original packaging, in standard conditions (+5 °C to + 35 °C), for 12 months from date of production. It is important to keep the product in dry conditions, away from heat sources and direct sunlight.

PRODUCT TECHNICAL DATA

Appearance of the paste component A	White thixotropic paste
Appearance of the hardener component B	Clear liquid
Proportionate weight of the blend	9.4+0.6 (A+B= 10Kg of product)
Specific weight A+B	1.45kg/l
Specific weight A	1.50kg/l
Specific weight B	0.92Kg/l
Operating temperature	+5°C+40°C
Open time	70min at 23°C
Grab time	5/7 hours a 23°C
Lightweight walking time	12/24 hours a23°C
Heavyweight walking time depending on the substrate	3/6 days a 23°C
Mechanical resistance after 7 days at 23°C	Excellent with spaced supports
Usable temperature	-40°C + 100°C
Supporting elasticity	Excellent
Resistance to ageing	Excellent
Resistance to humidity	Excellent

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SAFETY ADVICE

Keep away from babies and infants. Dispose of waste in containers suitable for building materials.

GUIDANCE

The information contained in this technical data sheet, resulting from our long experience, is purely indicative. Moreover, we advise that the user checks that the product is suitable for the purpose for which it is intended, and that they are responsible for its use.

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