



SEIRECEM EP TIXO

Epoxy cement smoothing mortar

Easy to apply

To fill, level and smooth irregularities

Vapor barrier

Good chemical and mechanical resistance

Impermeable to liquids

Low VOC, solvent-free

Can be overcoated with resin-based floor finishes after 24 hours

For indoor and outdoor use



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Product description:

SEIRECEM EP TIXO is a three-component, epoxy-modified, cementitious mortar for the regularization, smoothing and protection of vertical and horizontal surfaces.

Thanks to its formulation, it has exceptional adherence to concrete and provides improved chemical resistance compared to cement or concrete mortars, to the surfaces on which it is applied.

Due to its properties, SEIRECEM EP TIXO prevents the formation of blisters in resin-based floor finishes on temporarily damp substrates and not subject to phreatic pressure. A breathable coating can be applied once SEIRECEM EP TIXO is dry to the touch.

After curing, SEIRECEM EP TIXO is resistant to the passage of water, chemicals, frost and weathering.

Applications:

- Repair, level and smooth concrete or mortar surfaces indoors and outdoors, also in aggressive chemical environments.
- Temporary moisture barrier in floors under epoxy, PU and polyaspartic coatings (thickness $\geq 2\text{mm}$).
- Levelling layer in epoxy, PU, polyaspartic systems, ...
- Creation of surfaces for the placement of ceramic tiles, natural stone, wood and light pavement (PVC, linoleum, ...).
- Applicable in industrial facilities, laboratories, warehouses, car parks, hangars, workshops, production and processing areas and in general for facilities with medium traffic intensity and frequency.

Substrate Preparation:

The substrate must have a compressive strength higher than 25 N/mm^2 and a tensile strength higher than $1,5 \text{ N/mm}^2$, may be moist but not waterlogged and must be hard, solid and free of laitance, grease, oils, waxes, dust or other loose particles such as paint, release agents, limescale, mortar, plaster, adhesive residues, etc., which may impair adhesion to the substrate.

Substrate preparation must be carried mechanically using the appropriate system on each occasion, shot blasting, sandblasting or pressurized water, to remove cement laitance and other contaminants. Subsequently, a vacuum will be carried out. Contaminated or damaged concrete areas must be removed until a resistant surface is found. The repair of large coves, reprofiling and other high thickness repair operations will be carried out with SEIREBETON F.

Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (for example expansion joints).

Primer:

It is recommended to abundantly moisten the surface (especially in hot climates) preferably 24 hours, and at least 2 hours before, prior to the application of SEIRECEM EP TIXO. The surface must remain damp and dark, but without exudation of water at the time of applying SEIRECEM EP TIXO. Alternatively, the SEIRE WP FAST PRIMER can be used, mainly on very dry surfaces.

Mixture:

Stir the liquid components of SEIRECEM EP TIXO before mixing. Pour the content of component A into the container of component B and thoroughly mix the two liquid components with a stirrer at low speed for a minimum of 30 seconds until homogenise. Pour the mix A+B in a container of approximately 30 liters, add component C and continue stirring for approximately 3 more minutes until a homogeneous mixture is obtained.

It is not advisable to carry out partial mixtures by volume.

After the three components are mixed, 1kg of SEIRECEM EP TIXO will remain workable for 40 minutes at temperatures between 18°C and 20°C .

Once the pot life is exceeded, the mixed product loses its characteristics and must be discarded.

Recommendations:

After mixing the three components of SEIRECEM EP TIXO use immediately.

Protect the surface from sunlight and air currents to avoid drying too quickly.

Note that higher temperatures shorten time of use and lower temperatures lengthen it.

Ensure proper ventilation if applying in confined places to avoid possible condensation.

In outdoor applications, it is recommended to apply when temperatures drop (at sunset), otherwise, excessive heat (especially in summer) could cause the appearance of bubbles.

Limitations:

Do not use SEIRECEM EP TIXO where ambient and/or substrate temperatures are less than 8°C or less than 3°C above the dew point.

Do not use where ambient and/or substrate temperatures exceed 30°C or where ambient humidity exceeds 80%.

Avoid application if contact with water is expected (rain, condensation, ...) in the 24 hours following application.

The application of coatings that are not permeable to water vapor can only be done when the surface humidity of SEIRECEM EP TIXO is less than 4% (normally after 24 hours at 20°C).

Not applicable on substrates subjected to phreatic pressure.

Method of application:

Once mixed, apply SEIRECEM EP TIXO onto humid-mate substrate and spread evenly using the appropriate trowel until the proper thickness is obtained.

The application thickness is from 1.5 to 3 mm, up to 5 mm in delimited areas and of little extension (patches).

A damp sponge can be used to achieve the desired finish (swirl or smooth by re-troweling after sponging) approximately 45-60 minutes after application.

Do not add solvent or thinners at any stage.

Approximative consumption:

$2.15 \text{ Kg/m}^2/\text{mm}$

Cleaning of tools and equipment:

SEIRECEM EP TIXO can be cleaned immediately after use with water. If the product is allowed to harden, it will have to be removed mechanically.

Residues/spillages:

Any spillage from any of the components must be removed immediately with sand, vermiculite or other inert material and collected in a suitable container for proper handling and treatment.

Residues from spillage and empty containers must be dealt with in accordance with local regulations.

See product safety sheet for further information.

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Storage:

SEIRECEM EP TIXO can be stored for up to 12 months in its original unopened packaging. The product should be stored in a dry place between +5°C and +30°C. Keep away from icy conditions, direct sunlight and sources of heat.

Precautions:

Contains cement. Reacts alkalinely. Protect skin and eyes.

After curing, the product is physiologically and ecologically neutral.

Resin: Hazardous to health if swallowed. Causes serious skin and eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Contains epoxy components.

Catalyst Hazardous to health if swallowed. May cause an allergic skin reaction. Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.

During mixing or application, the following precautions should be taken: ensure adequate ventilation and avoid contact of the material with the eyes, nostrils, mouth or skin. Avoid contact with hands, protecting them with gloves and protective cream if necessary. In case of contact with eyes, rinse immediately with plenty of water and consult a doctor. If on skin: Wash with plenty of soap and water (do not use solvents). Avoid prolonged skin contact, especially those who have allergic reactions to epoxy materials. Wear always protective gloves and eye protection. Take care of personal hygiene after work, or during breaks, always washing your hands. Take care when removing gloves not to contaminate the inside of the gloves.

In case of accidental ingestion of the product, seek immediate medical attention, do not induce vomiting. If eye or skin irritation persists: Get medical advice/attention.

After curing, the product is physiologically and ecologically neutral.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

See product safety sheet for further information.

Technical data

(based on tests conducted in our laboratory according to current regulations)

Mixing ratio:	As indicated on packaging
Fresh mortar density:	Approx. 2.15 kg/L
Consumption:	Approx: 2.15 Kg/m ² /mm
Workability time (20°C):	Approx. 40 minutes
Dry to touch (20°C):	Approx. 3 h
Recoatable (20°C):	Approx. 24h
Concrete adhesión (UNE EN 13892-8):	≥2 N/mm ² (28 days)
Flexural strength (UNE EN 196-1):	≥10 N/mm ² (28 days)
Compressive strength (UNE EN 196-1):	≥45 N/mm ² (28 days)
Packaging:	Kits of 25,4 kg
Storage:	Approx. 12 months in a dry place and in original unopened packaging

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SEIRE PRODUCTS SL. C/ Los Muchos P.I. Albolleque Sector III 19160 Chiloeches- Guadalajara España 23	
8006196 EN 1504-2:2004 SEIRECEM EP TIXO Epoxy-cement micromortar for sealing and regularization of surfaces EN 1504-2	
Capillary absorption:	$\leq 0,1 \text{ Kg}/(\text{m}^2 \text{ h}^{0,5})$
Adhesion:	$\geq 2,0 \text{ MPa}$
Water Vapor Permeability:	$S_d < 5 \text{ m (permeable)}$
Reaction to fire:	F
Hazardous substances:	Cuomplies with 5.3 de EN 1504-2

	
SEIRE PRODUCTS SL. C/ Los Muchos P.I. Albolleque Sector III 19160 Chiloeches- Guadalajara España 23	
8006196 EN 13813:2002 SEIRECEM EP TIXO Epoxy-cement micromortar for sealing and regularization of surfaces EN 13813: CT C40-F10-IR24.5-B2.0 modified polymer	
Compressive resistance:	$\geq 40 \text{ N/mm}^2$
Flexural resistance:	$\geq 10 \text{ N/mm}^2$
Adherence:	$\geq 2 \text{ N/mm}^2$
Impact resistance:	$> 24,5 \text{ Nm}$
Reaction to fire:	F

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Edition: February 2023

