

Seire

SEIREPOX A/N

Epoxy adhesive

Excellent adhesion to all types of building materials

Can be used on slightly damp substrates

Solvent-free (100% solids)

Cures without shrinkage

For anchoring purposes

High mechanical resistance

Good chemical resistance

Indoor and outdoor use



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SEIREPOX A/N

Two-component epoxy adhesive

Product description:

SEIREPOX A/N is a solvent-free, epoxy resin-based, two-component adhesive used to affix and bond construction materials.

Certified for use as an anchoring material.

After curing, SEIREPOX A/N is resistant to the passage of water, chemical agents, frost and weathering.

Applications:

- Bonding hardened concrete.
- Bonding steel and steel to concrete.
- Affixing and anchoring airport beacon lighting
- Affixing traffic control gauges.
- For indoor and outdoor use.
- Horizontal and vertical application (requires Thixotropic agent).

Substrate Preparation:

Ensure substrate tensile strength is greater than 1.5 N/mm². Substrate can be moist (max 6%). Ensure that the substrate is hard, solid and free of laitance, grease, dust or other loose particles such as paint, release agents, limescale, mortar, plaster, adhesive residues, etc., which may impair adhesion.

Prepare the substrate using specialist machinery: sanding, milling or diamond tools depending on the state of the substrate. Vacuum the substrate.

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

When applied on metal surfaces, sandblasting should be used for cleaning/preparation up to Sa2½ grade. A final clean is recommended with a suitable solvent. Ensure solvent is completely dried off when applying primer/coating.

Mixture:

Stir the individual components of SEIREPOX A/N before mixing.

Pour the contents of component B into the container of component A and mix thoroughly the two components with a mixer at low speed for a minimum of 3 minutes.

Part of the mixture can be reintroduced into the hardener container to gather up residues remaining in the container. The mixture which has been reintroduced into the hardener container can be returned to the mixing container and stirred for a further 30 seconds. This mixing process ensures the product's consistency and that any residual resin remaining in the containers reacts, facilitating subsequent management of residues.

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

After mixing both components, 1Kg of SEIREPOX A/N, remains workable for 30 minutes at temperatures between 18°C and 20°C.

If the pot life is exceeded the mixed product loses its characteristics and should be discarded.

Recommendations:

After mixing the two components of SEIREPOX A/N, use immediately. Towards the end of the mixture's useful life and because of its strong reactivity, it will heat up, causing a sharp decline in remaining pot-life. The heat increases in proportion to the amount of resin remaining in the container.

In these cases (high temperature) do not touch the drum. In case of fumes, cover with the lid, but do not close, and, using the handle, place somewhere cool and well ventilated or somewhere outdoors to prevent the accumulation of gases.

Higher temperatures shorten time of use and lower temperatures lengthen it.

Limitations:

Do not use SEIREPOX A/N where ambient and/or substrate temperatures are less than 10°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 85%.

Because of the epoxy nature of the material, applications might yellow when exposed to UV light.

Method of application:

Once mixture is well-blended, apply by pouring or using a brush, roller or spatula.

On uneven surfaces, apply adhesive to both surfaces to be bonded.

Consumption:

Consumption of SEIREPOX A/N is approximately 1.4 Kg/m² per mm of thickness.

Cleaning of tools and equipment:

SEIREPOX A/N can be cleaned immediately after use using a solvent such as ARDEX RTC. 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.

Storage:

SEIREPOX A/N 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 frost, direct sunlight and sources of heat.

Precautions:

Causes irritation to eyes and skin, depending on sensitivity. Hazardous to health if swallowed.

May cause burns in case of prolonged exposure. Avoid contact with eyes and skin. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.

Safety goggles and gloves must be worn at all times while the product is being mixed and when applying the product.

Once dry, the product is physiologically and ecologically neutral. For more information see product safety sheet.


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Technical data

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

Mixing ratio:	As indicated on packaging
Density:	Approx. 1.4kg/L
Consumption:	Approx. 1.4kg/m ² /mm
Workability time (20°C):	Approx. 30 minutes
Recoat time (20°C):	Approx. 6h
Full cure (20°C):	7 days
Packaging:	Kits of 5kg and 25kg net (A+B)
Flexural strength (UNE EN 196-1):	>30N/mm ²
Compressive strength (UNE EN 196-1):	Approx. 60N/mm ²
Packaging:	Kits of 5kg and 25kg
Storage:	Approx. 12 months in a dry place and in original unopened packaging

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8004457 EN 1504-6 SEIREPOX A/N Anchoring product EN 1504-6	
Displacement under load of 75 kN:	≤ 0.6 mm
Chloride ion content:	≤ 0.05 %
Glass transition temperature:	≥ 45 °C
Tension load creep (displacement under continuous load of 50 kN over 3 months):	≤ 0.6 mm
Hazardous substances:	Complies with 5.3 of EN 1504-6

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