Seire

ADIPOX EP 1000

Fluid epoxy mortar for anchoring and filling

Fast and easy application

Excellent adhesion to most common building materials

Solvent-free (100% solids)

Cures without shrinkage

High mechanical strength and resistance to abrasion

Good chemical resistance

For indoor and outdoor use

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

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Fluid epoxy mortar for anchoring and filling

Product description:
ADIPOX EP 1000 is a solvent-free epoxy mortar with a fluid consistency. A 3k packaging with a third component consisting in a selected choice of aggregates with a specially optimised grading curve with a maximum size of 1.6mm.
After curing, ADIPOX EP 1000 is resistant to the passage of water, chemicals, frost and weathering.

Applications:
- Structural and non-structural concrete repair
- Anchoring of bolts and reinforcement
- Repair and filling of cracks not subject to movement.
- Filling of concrete cavities.
- For indoor and outdoor use.
- Applicable on vertical (with formwork) and horizontal surfaces

Substrate Preparation:
The substrate must have a tensile strength higher than 1.5 N/mm^2, must be dry (residual humidity less than 4%), 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 with specialist machinery; sanding, milling or diamond tools depending on the state of the substrate. Subsequently, a vacuum will be carried out.
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 before applying ADIPOX EP 1000.

Mixture:
Stir the liquid components of ADIPOX EP 1000 before mixing.
Pour the content of component B into the container of component A and thoroughly mix the two liquid components with a stirrer 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 introduced into the hardener container can then 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. Then add component C (aggregate) and continue stirring for about 3 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 ADIPOX EP 1000 will remain workable for 40 minutes at temperatures between 18°C and 20°C.
If Pot-Life is exceeded the mixed product loses its characteristics and should be disposed of.

Recommendations:
After mixing the three components of ADIPOX EP 1000 use immediately. Towards the end of the mixture's useful life and due to its high level of reactivity, the mixture will heat up, resulting in a sharp decline in its Pot-Life. The heat increases in proportion to the amount of resin remaining in the container.
If this occurs (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 accumulation of gases.
Note that higher temperatures shorten time of use and lower temperatures lengthen it.

Limitations:
Do not use ADIPOX EP 1000 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 30ºC or where ambient humidity exceeds 85%.
Because of the epoxy nature of the material, applications might yellow when exposed to UV light.
The minimum width and depth of application are 5mm.

Method of application:
Apply simply by pouring, until the required space is filled; use a rod to reach into every corner, especially when filling complicated volumes.
For higher thickness apply in several layers of a maximum of 4 cm, ensuring previous layers have cured. Don't wait more than 24 hours between layers.
As an alternative to apply in a single pour / fill, a mix with compensated grain size aggregate >2mm is recommended. The maximum size, as well as the amount of aggregate to add, will depend on the geometry of the volume to be filled.

Consumption:
Approx. 2.0 kg per litre of volume to fill

Cleaning of tools and equipment:
ADIPOX EP 1000 can be cleaned immediately after use with a solvent such as ARDEX RTC. If the product cures, it will have to be removed mechanically.

Residues/spillages:
Any spillage from any component 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:
ADIPOX EP 1000 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. Protection against frost, direct sunlight and heat sources is required.

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 any time during mixing and application.
If applying indoors, ensure that the site is well ventilated.
After curing, the product is physiologically and ecologically neutral.
See product safety sheet for further information.

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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. 2.0 Kg/L
Workability time (20°C):	Approx. 40 minutes
Recoatable (25):	After 8h approx.
Full cure (25ºC):	After 7 days
Flexural strength (UNE EN 196-1):	> 30 N/mm²
Compressive strength (UNE EN 196-1):	Approx. 65 N/mm²
Packaging:	Kit of 34 Kg
Storage:	Approx. 12 months in a dry place and in original unopened packaging

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ARDEX GROUP