

Seire

ADIPOX UNION 100

Fluid epoxy adhesive

Bonding bridge with long open time

Solvent-free (100% solids)

Fast and easy application

Good adhesion to damp substrates

Excellent adhesion to mineral and metallic substrates

Indoor and outdoor use



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Fluid epoxy adhesive

Product description:

ADIPOX UNION 100 is a fluid, solvent-free two-component epoxy adhesive especially designed for application using airless gun. After curing, ADIPOX UNION 100 is resistant to the passage of water, chemical agents, frost and weathering.

Applications:

- Bonding interphase between fresh and hardened concrete.
- Adhesion of epoxy mortars to smooth concrete or mortar substrates.
- For indoor and outdoor use.
- Horizontal application.

Substrate Preparation:

The substrate must have a tensile strength greater than 1.5 N/mm², may be moist (<6%) but not waterlogged. The substrate must be hard, sound, and free of grout, grease, oil, wax, dust and other loose particles such as paint, release agents, traces of lime, mortar, plaster, adhesive residues, etc., that may impair adhesion.

Prepare the substrate using specialist machinery - sanding, milling, shot blasting 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 before applying ADIPOX UNION 100.

Mixture:

Stir the individual components of ADIPOX UNION 100 before mixing.

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

Part of the mixture can be put back into the container of component B to gather up residues remaining in the container. The mixture which has been put back into the container of component B 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.

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

After mixing the two components, 1kg of ADIPOX UNION 100 remains workable for 50 minutes at a temperature 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 two components of ADIPOX UNION 100, 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 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 ADIPOX UNION 100 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%.

Method of application:

Once well-blended, apply thinly by airless gun at 200 bar pressure with a 417 nozzle and a 50 mesh filter.

When necessary, application may be done by broom or roller, in thin coats, ensuring that the substrate is well impregnated.

Before applying fresh concrete over ADIPOX UNION 100, wait until it acquires a slight stickiness, at least 30 minutes. Do not wait longer than 4 hours at 25 °C – Always apply before stickiness is lost.

If more than 4h elapse, a new application of ADIPOX UNION 100 will be necessary.

When dry resin mortars are applied, the primer must be fresh.

Consumption:

Minimum consumption of ADIPOX UNION 100 is approximately 500 g/m², depending on substrate roughness and porosity.

Cleaning of tools and equipment:

ADIPOX UNION 100 can be cleaned immediately after use with 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 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 UNION 100 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.

If applying indoors, ensure that the site is well ventilated. 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. 1.1kg/L
Consumption:	Approx. 500g/m ²
Workability time (20°C):	Approx. 50 minutes
Open time:	Approx. 4h
Packaging:	Kits of 12kg
Storage:	Approx. 12 months in a dry place and in original unopened packaging.

Seire takes responsibility for the quality of its products. The application recommendations given are based on tests and practical experience. We will not be held responsible for the product or its application in case of any dosage or application other than as described and recommended. For any questions about this product, please contact our Technical Department. This data sheet remains valid until a new edition is issued.

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