

Seire

SEIREPOX MULTICAPA AL

Coloured epoxy binder suitable for contact with drinking water

Solvent-free (100% solids)

Easy to apply

Waterproof

Hygienic and easy to clean

For smooth or anti-slip finishes

Can be dusted with sand

High chemical and mechanical resistance

For indoor and outdoor use

Conforms with: Regulation UE 10/2011

R.D. 847/2011



SEIRE PRODUCTS, S.L.

P.I. Albolleque, Sector III

C/Los Muchos, 34-36

19160 - Chiloeches (Guadalajara)

T. +34 949 366 953

seire@seire.net

SEIREPOX MULTICAPA AL

Coloured epoxy binder suitable for contact with drinking water

Product description:

SEIREPOX MULTICAPA AL is a fluid, solvent free, bi-component epoxy binder, designed to be in contact with drinking water.

Fulfills the requirements of Spanish R.D. 847/2011 (materials in contact with foodstuffs) for any period of contact and for temperatures less than or equal to 40°C. Components in the formulation are in the positive list of substances and also fulfil the requirements of global and specific migration. For more information, request the corresponding certificate.

SEIREPOX MULTICAPA AL gives the coated surfaces waterproofing and makes them easy to clean, providing high mechanical and chemical performance and easy maintenance.

Applications:

- Lining drinking water tanks.
- Indoor and outdoor use.
- For substrates of different types (concrete, mortar, polyester, steel, etc).

Substrate Preparation:

The substrate must have a tensile strength of more than 1.5 N/mm², must be dry (residual humidity less than 4%), hard, sound 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.

Prepare the substrate using specialist machinery 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 SEIREPOX MULTICAPA AL.

Primer:

Before applying SEIREPOX MULTICAPA AL, prime the substrate using the same SEIREPOX MULTICAPA AL in pure form or diluted with ethanol (max 3%) depending on substrate absorption.

Do not allow more than 24 hours (at 20°C) to elapse between coats - otherwise, it will need to be sanded and re-primed.

Ensure proper ventilation during application and curing, especially in confined spaces such as tanks, etc.

The primer can be mixed with 0.4mm aggregate (ratio of 1:0.3-0.5) to be applied with a smooth trowel or rubber squeegee and subsequently flattened out with a roller.

This primer coat can be sprinkled to saturation with 0.6mm aggregate.

Before applying the next layer, sweep the sand-covered surface and vacuum to remove unbound aggregate.

Mixture:

Stir the individual components of SEIREPOX MULTICAPA AL 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 both components, 1Kg of SEIREPOX MULTICAPA AL, will remain workable for 30 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 two components of SEIREPOX MULTICAPA AL, use immediately. During the final period of the mixture's useful life and because of its strong reactivity, it will heat up causing a sharp decline in its 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.

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

All SEIRE products are manufactured subject to rigorous quality controls and procedures; however, if strict colour consistency is required, you are advised to use products taken from the same lot.

Prior to use, it is obligatory to clean all coated areas that will come into contact with drinking water, at least once with clean water.

Limitations:

Do not use SEIREPOX MULTICAPA AL 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%.

SEIREPOX MULTICAPA AL

Coloured epoxy binder suitable for contact with drinking water

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

Method of application:

1. As Paint:

After mixing components A and B, apply directly to the primed substrate using a short nap roller or brush. When necessary, application may be by Airless at 200 bar pressure with a 417 nozzle and a 50 mesh filter.

2. As Multilayer:

Once mixed with SEIRECUARZO 0.4 at a 1:0.4 ratio, SEIREPOX MULTICAPA AL should be spread across the floor without delay using a flat trowel.

While still wet, sprinkle with SEIRECUARZO 0.6 or SEIRECUARZO 0.8 (depending on the required roughness) to saturation.

On the following day, sweep the sand-covered surface and vacuum to remove unbound aggregate.

This operation can be repeated as required until the desired thickness is achieved.

Apply the finishing coat of SEIREPOX MULTICAPA AL with a rubber squeegee and/or short/medium nap roller, sealing the surface and encapsulating the aggregate. Completing application (to remove blemishes) with a medium nap roller.

Do not add solvent or thinner at any stage.

Consumption:

Paint: approx. 0.25 - 0.4kg/m² per coat

Multilayer 1:0.5: approx. 0.5 - 0.6 kg/m² per coat

Sealing: approx. 0.5 kg/m² (multilayer system)

Cleaning of tools and equipment:

SEIREPOX MULTICAPA AL 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 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 MULTICAPA AL 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 ingested.

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. See product safety sheet for further information. After drying, the product is physiologically and ecologically neutral.

Technical data

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

Mixing ratio by weight:	As indicated on packaging.
Density:	Approx. 1.4 kg/L
Workability time (20°C):	Approx. 30 minutes.
Recoatable:	After 6 h. approx.
Flexural strength (UNE EN 196-1):	Mortar 1:1 with sand 0,4mm >38N/mm ²
Compressive strength (UNE EN 196-1):	Mortar 1:1 with sand 0,4mm Approx. 90N/mm ²
Chemical Resistance:	After approx. 7 days.
Packaging:	Kits of 25kg
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.

Seire does not take responsibility for the content of data sheets collected on internet from sites other than the official Seire (www.seire.net)

Edition: February 2023

