

# Seire

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## SEIREPOX MF

**Multi-purpose epoxy binder**

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100% solid

Solvent-free

Applicable as paint, multilayer and self-levelling

Allows multiple finishes (smooth, anti-slip, ...)

Can be mixed and/or dusted with sand

High level of physical and chemical resistance

Excellent adhesion

Easy to clean

For indoor and outdoor use



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# SEIREPOX MF

## Multi-purpose epoxy binder

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### Product description:

SEIREPOX MF is a solvent-free, coloured epoxy resin, applicable on any floor where a resistant, aesthetic and easy to clean finish is required.

Applicable in plain form as paint.

In combination with SEIRECUARZO 0.6, SEIREPOX MF can be used to generate multilayer flooring with high levels of mechanical resistance, 2 to 3 mm thick.

In combination with SEIRECUARZO 0.4, SEIREPOX MF is applied as a highly even, self-levelling coating.

After curing, SEIREPOX MF is resistant to the passage of water, chemicals, frost and weathering.

### Applications:

- Applicable in warehouses, parking garages, hangars, industrial floors, workshops, production and processing areas, soft drink and bottling plants, breweries, kitchens, etc.
- Indoor and outdoor use.

### Substrate Preparation:

The substrate must have a tensile strength of more than 1.5 N/mm<sup>2</sup>, must be dry (residual humidity less than 4%), hard, sound 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 to the substrate.

Prepare 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).

To prepare metal substrates, sandblasting to Sa 2½ grade is recommended. After sandblasting, the surface must be cleaned using a proper solvent. Ensure solvent is completely dried off before applying primer coat.

### Primer:

Prior to applying SEIREPOX MF, prime the substrates using the primer in our portfolio best fitting substrate and application conditions.

Do not allow the primer to dry for any longer than indicated in its technical sheet - otherwise, it will need to be sanded and re-primed.

### Mixture:

Stir the individual components of SEIREPOX MF before mixing.

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

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

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

After the two components are mixed, 1kg of SEIREPOX MF will remain 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 MF, use immediately. Towards the end of the mixture's useful life and due 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 batch.

### Limitations:

Do not use SEIREPOX MF 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 product, applications might yellow when exposed to UV light.

### Method of application:

#### 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.

#### Self-levelling:

After mixing components A and B, add approximately 500-700 grams of SEIRECUARZO 0.4 per kilogram of mixture. Pour the material over the primed substrate and distribute with a notched trowel, so that you can control the thickness. Treat immediately with a spiked roller to allow trapped air to escape, until all bubbles have been removed.

#### Multilayer:

Primer layer must be mixed with SEIRECUARZO 0.4 at a ratio of 1:0.4 and applied with a smooth trowel and then flattened out with a roller.

When still wet, this primer coat should be dusted with SEIRECUARZO 0.6 until saturation.

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## Multi-purpose epoxy binder

Before applying the next layer, sweep the sandcovered surface and vacuum to remove the unbound aggregate. Mix SEIREPOX MF with SEIRECUARZO 0.4 at a 1:0.4 ratio, spread the mix across the floor without delay using a flat trowel. While still wet, sprinkle with quartz aggregate to saturation. The size of the sand depends on the required roughness, being SEIRECUARZO 0.6 the most usual. On the following day, sweep the sandblinded surface and vacuum to remove unbound aggregate. This operation can be repeated as required until the desired thickness and antislip grade are achieved. The finishing coat of SEIREPOX MF, applied using a rubber squeegee, seals the surface and encapsulates the aggregate. If necessary, complete the application with a medium nap roller to remove blemishes. Do not add solvent or thinners at any stage.

### Approximate consumption:

Paint	0.25-0.3 kg/m <sup>2</sup> /layer
Self-levelling 1:0.5	1.6 Kg/m <sup>2</sup> /mm
Multilayer1:0.4	0.5-0.6 kg/m <sup>2</sup> per coat
Sealing layer	400-500 g/m <sup>2</sup>

### Cleaning of tools and equipment:

SEIREPOX MF 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 MF 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:

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. After drying, the product is physiologically and ecologically neutral.

For further information see the product safety sheet.

### Technical data

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

<b>Mixing ratio:</b>	As indicated on packaging
<b>Density:</b>	Approx. 1.4 kg/L
<b>Consumption:</b>	See specific paragraph on TDS
<b>Workability time (20°C):</b>	Approx. 30 minutes
<b>Recoatable (20°C):</b>	Min. 16 hours
<b>Flexural strength (UNE EN 196-1):</b>	Mortar 1:1 with sand 0,4mm >38N/mm <sup>2</sup>
<b>Compressive strength (UNE EN 196-1):</b>	Mortar 1:1 with sand 0,4mm Approx. 90N/mm <sup>2</sup>
<b>Chemical resistance:</b>	After 7 days
<b>Packaging:</b>	Kit of 25kg
<b>Storage:</b>	Approx. 12 months in a dry place and in original unopened packaging.



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**8004041**  
**EN 13813**  
**SEIREPOX MF**  
Synthetic flooring resin  
EN 13813:SR-IR14-B2,0-AR 0,5

Emission of corrosive substances:	SR
Abrasion resistance BCA:	AR 0,5
Tensile adhesion strength:	B 2,0
Impact resistance:	IR14
Reaction to fire:	Bfl-s1

*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 will not be held responsible for the content of technical data posted on websites other than the official Seire website ([www.seire.net](http://www.seire.net))*

**Edition: February 2021**



ARDEX GROUP