

# Seire

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## SEIRE WP 500

### Polyaspartic coating

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Multifunctional: flooring and waterproofing

Applicable as paint and multilayer

Rapid polymerisation

Easy to apply and repair

Wide temperature application window (from -5°C to +30°C)

Adaptable to any substrate geometry

Watertight

Weatherproof and resistant to UV radiation

Indoor and outdoor use

Good chemical resistance

High mechanical resistance and to traffic wear

100% solids, solvent free



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# SEIRE WP 500

## Polyaspartic coating

### Product description:

SEIRE WP 500 is a 100% solids, two-component, coloured, cold-applied polyaspartic coating. It provides high mechanical strength, enhanced hardness, watertightness and resistance to wear. It can be applied on uneven surfaces. Rapid polymerisation makes it walkable after 2 hours. Resistant to atmospheric agents. Once dry, it forms a continuous waterproof membrane adhered to the substrate, without joints or need for overlap or reinforcement (only specific points need reinforcement). Used to execute flooring that is easy to clean and maintain, with high mechanical and chemical performance.

After curing, SEIRE WP 500 is waterproof, resistant to chemical agents, frost and weathering.

### Applications:

- Flooring in garages, areas subject to vehicle and pedestrian traffic, retail areas.
- Resistant flooring that is easily decontaminated in the chemical and food industry.
- Waterproofing of small terraces, balconies and stairs.
- Protection or repairs of SEIRE WP 400 membrane.

### Substrate Preparation:

Ensure that the substrate is hard, dry (max 4% humidity), 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.

Remove all traces of varnish, waxes, fats, oils and similar contaminants prior to mechanical preparation.

Prepare substrate with specialist machinery; sanding, milling or blasting machine depending on the state of the substrate. Vacuum the substrate.

Carry out repair work and fill any holes and cracks using the most appropriate product from the SEIRE range.

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, sandblast for cleaning/preparation.

### Primer

Before applying SEIRE WP 500, prime substrate with SEIRE WP PRIMER, ARDEX DPM 1C R or using a primer from our range as best suits the 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 SEIRE WP 500 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 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 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 the two components have been mixed, 1kg of SEIRE WP 500 remains workable for 20 minutes at a temperature between 18°C and 20°C.

### Recommendations:

After mixing the two components of SEIRE WP 500, 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 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, place the lid without closing it and using the handle, place somewhere cool or outdoors.

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

### Limitations:

Do not apply on substrates subject to immersion like swimming pools, ponds, fountains, reservoirs, containers, aquariums, etc.

Do not use SEIRE WP 500 where ambient and/or substrate temperatures are less than -5°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 75%.

Can be applied to substrates with maximum 4% moisture (for substrates with higher levels of humidity, contact the SEIRE Technical Department).

Do not use airless equipment or alike.

If Pot-Life is exceeded the mixed product loses its characteristics and should be disposed of.

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.

Once the product is opened, use immediately.

### Method of application:

The mixture's reduced execution time (Pot-Life) should be taken into account - it is necessary to properly organise application without pauses.

### Paint

Once components A and B are mixed, spread SEIRE WP500 over the floor, without delay, using a rubber squeegee, completing the application (to remove blemishes) with a medium nap roller.

The second layer should be applied as soon as the first is sufficiently cured (1.5 - 2.5 hours at 20°C).

Apply at least 2 coats.

### Multilayer:

Add 30-50% of 0.4mm quartz sand to the mix of CA and CB of SEIRE WP 500. Spread over the floor, without delay, using a rubber squeegee, completing the application with a medium nap roller to remove blemishes.

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

Once the material is cured, after approx. 2h at 20°C, sweep the sprinkled surface and vacuum to remove unbound aggregate.

These operations can be repeated as required until the desired thickness is achieved.

The finishing coat of SEIRE WP 500, applied using rubber squeegee and short nap roller, seals the surface and encapsulates the aggregate.

In case of having to thin the material down to a required application viscosity only solvent for PU can be used.

Curing time varies according to ambient and surface temperature. Do not allow more than 12 hours to elapse between coats, otherwise sanding will be required.

Resistant to rain after approx. 30 min

The aliphatic nature allows SEIRE WP 500 to skip any extra UV protection when exposed.

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### Consumption:

Paint: 400-500 g/m<sup>2</sup> in two layers  
Multilayer: 500-600 g/m<sup>2</sup> of the mortar per layer  
Top Coat: Approx 450 g/m<sup>2</sup>

### Tool cleaning:

SEIRE WP 500 can be cleaned from tools and equipment 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 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:

SEIRE WP 500 can be stored for up to 6 months in its original unopened packaging. The product should be stored in a dry place between 5°C and 25°C. Keep away from frost, direct sunlight and sources of heat.

### Precautions:

May cause allergic skin reaction. Harmful if inhaled and in contact with skin. Avoid contact with eyes and skin. In case of contact with skin, wash immediately with plenty of clean water. Wear safety goggles and protective gloves. Application restricted to professional and outdoor use. See product safety sheet for further information.

### Technical data

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

<b>Mixing ratio by weight:</b>	As indicated on packaging.
<b>Density:</b>	Approx. 1.35 kg/l
<b>Solid content</b>	100%
<b>Application temperature (substrate/ambient)</b>	From -5°C to +30°C
<b>Workability time (20°C):</b>	20 min
<b>Dry to touch (20°C):</b>	40 min
<b>Resistant to rain (20°C):</b>	Approx 30 min
<b>Recoatable (20°C):</b>	Approx. 2h
<b>Chemical resistances:</b>	After approx 7 days
<b>Tensile strength (23°C)</b>	Approx. 10 MPa
<b>Elongation at break (23°C)</b>	>50 %
<b>Packaging:</b>	Kits of 10 Kg net
<b>Storage:</b>	Approx 6 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 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: December 2018**

