

# Seire

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## **SEIRE WP 500 T**

### **Colourless polyaspartic resin, 100% solids**

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Solvent free

Transparent

Repair and execution of seamless flooring

Applicable as sealant and multilayer

High polymerization rate (transitable after 2 hours)

Wide range of application temperatures (from -5°C to + 30°C)

Impervious to liquid water

Good chemical resistance

High mechanical resistance and to traffic wear

Applicable indoors

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# SEIRE WP500 T

## Colourless polyaspartic resin, 100% solids

### Product description:

SEIRE WP 500 T is a bicomponent, 100% solids, aliphatic, colourless, transparent, cold manual application, impermeable, high mechanic and wear resistance, polyaspartic resin. Can be applied on uneven surfaces adapting perfectly and its high polymerization rate allows transitability after 2 hours.

Once cured, the product forms an impermeable and continuous coating, seamless and with no need for overlapping or reinforcement (except at specific points where it meets other construction elements). Resistant to chemical agents.

### Applications:

- Multi-layer flooring with colour aggregate in garages, areas subject to vehicle and pedestrian traffic, commercial areas.
- Sealing and protection of mineral substrates and porous natural stone.
- Indoor application

### Substrate Preparation:

Substrate tensile strength must be greater than 1.5 N/mm<sup>2</sup>.

Ensure that the substrate is dry (maximum 4% moisture), hard, solid and free of laitance, grease, oils, waxes, dust or other loose particles such as paint, release agents, traces of lime, mortar, plaster, adhesive residues, etc., that may impair adhesion.

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

Carry out repairs and fill any holes, cracks and joints using the most suitable SEIRE product.

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 Sa2<sup>1/2</sup> grade. A final cleaning is recommended with a suitable solvent. Ensure solvent is completely dried off when applying primer.

### Primer:

Prior to application of SEIRE WP500 T, prime the substrate using the primer of our portfolio best fitting 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:

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 maximum of 2 minutes. Try to avoid incorporation of air into the mixture.

Part of the mixture can be put back into the container of component B to gather up remaining residues. The mixture which has been put back into the container of component B can be returned to the mixing container and stirred for a further 30 seconds. This mixing process ensures proper consistency and that any residual resin remaining in the containers reacts, facilitating subsequent residue management.

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

After mixing the two components, 1Kg of SEIRE WP500 T is workable for 20 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.

Once the product is opened, use immediately.

### Recommendations:

After mixing the two components of SEIRE WP500 T 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. If there are fumes, cover with the lid, but do not close, and, using the handle, place somewhere cool and well ventilated or outdoors.

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

### Limitations:

Do not apply to substrates that will be immersed in water, e.g. swimming pools, ponds, fountains, tanks, containers, aquariums, etc.

Do not use SEIRE WP500 T where ambient and/or substrate temperatures are lower 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%.

The product can be applied on substrates with a maximum humidity of 4%. For substrates with a higher level of humidity, consult the Seire Technical Department.

Not applicable using air-less mechanical equipment.

Curing time varies according to temperature and, especially according to ambient humidity.

If a period of 12 hours elapses between coats, sanding is required.

Application of SEIRE WP500 T in thick layers (> 500 µ) causes turbidity in the coating.

Application of SEIRE WP500 T directly on absorbent mineral substrates can cause the surface to darken.

### 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.

### Sealing layer:

Once components A and B have been mixed, spread over the floor without delay using a flat trowel or squeegee. To remove blemishes, finish the application with a medium nap roller.

Apply the second coat as soon as the first is sufficiently cured (between 1.5 and 2.5 hours at 20°C).

Application of a minimum of 2 coats is recommended.

To obtain a non-slip finish, the final layer can be mixed with micronized plastic particles (up to 8%).

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### Multilayer:

Once components A and B have been mixed, add SEIRECUARZO 0.4 (ratio of 1: 0.3-0.5) and spread without delay on the dusted and dry primer using a flat trowel or squeegee. While still wet, sprinkle to saturation with SEIRECUARZO COLOR.

Once the material is cured (approximately 2h at 20°C), sweep the sand-covered surface and vacuum to remove unbound aggregate.

Repeat as many times as necessary until desired thickness and slip resistance are attained.

The finishing layer of SEIRE WP500 T, applied using rubber squeegee and short nap roller, seals the surface and encapsulates the aggregate.

When required, PU solvent can be used to achieve suitable viscosity for working conditions.

### Consumption:

Sealing layer: 300-500 g/m<sup>2</sup> per layer

Multilayer: 500-600 g/m<sup>2</sup> of mortar per layer

Top coat: Approx. 450 g/m<sup>2</sup> (on multilayer system)

### Tool and equipment cleaning:

SEIRE WP500 T 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:

The product can be stored for up to 6 months in its original unopened packaging. Store in a dry place between +5°C and +25°C. Keep away from icy conditions, direct sunlight and heat sources.

### Precautions:

Causes irritation to eyes and skin. Harmful if inhaled or if in contact with skin.

Avoid contact with eyes and skin. In case of contact with the skin, rinse immediately and abundantly with clean water.

Wear protective goggles and gloves. Consult the safety data sheet for further information.

### Technical Data According to ARDEX Quality Standards

<b>Mixing ratio</b>	: As indicated on the packaging
<b>Density</b>	: Approx. 1,1 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 minutes
<b>Recoatable (20°C)</b>	: After approx. 2 hours
<b>Tensile strength : (UNE-EN ISO 527-1)</b>	: Approx. 20 MPa
<b>Elongation at break: (UNE-EN ISO 527-1)</b>	: Approx. 7%
<b>Chemical Resistance:</b>	After 7 days
<b>Packaging</b>	: Kits of 5 kg
<b>Storage and shelf life</b>	: Approx. 6 months in a dry place and in original unopened packaging