

# 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 (can be transited after 2h)

Resistant to rain after approx. 30 min

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

Slighly elastic

100% solids, solvent free



#### **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](mailto:seire@seire.net)

# SEIRE WP 500

## Polyaspartic coating

### Product description:

SEIRE WP 500 is a 100% solids, aliphatic, two-component, coloured, cold-applied polyaspartic coating. It provides high mechanical strength, watertightness, resistance to chemicals, wear resistance and easy cleaning. It can be applied on uneven surfaces. Rapid polymerisation makes it walkable after 2 hours. Showing slight elasticity can be used on microcracked substrates. When cured, it forms a seamless continuous waterproof membrane adhered to the substrate, without 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.
- Applicable on microcracked substrates
- Protection or repairs of SEIRE WP 400 and SEIRE WP400 TI membranes.
- For indoors and outdoors

### 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, 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.

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, 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 primer/coating.

### Primer

Before applying SEIRE WP 500, prime the substrate with 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.

On absorbent substrates, a first coat of SEIRE WP500 can act as the primer.

### 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 2 minutes avoiding inclusion of air. 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.

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 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.

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.

### 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.

Curing time varies according to ambient and surface temperature and specially on air humidity.

Do not allow more than 12 hours to elapse between coats, otherwise sanding will be required.

### 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:

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

Mix SEIRE WP500 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 SEIRECUARZO 0.6 or 0.8 (depending on the required roughness) to saturation.

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

# SEIRE WP 500

## Polyaspartic coating

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.

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

### 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. 450g/m<sup>2</sup> (on multilayer)

### Cleaning of tools and equipment:

SEIRE WP 500 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 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.

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>Resistant to rain (20°C):</b>	Approx 30 min
<b>Recoat time (20°C):</b>	Approx. 2h
<b>Chemical resistances:</b>	After approx 7 days
<b>Tensile strength (UNE-EN ISO 527-1):</b>	Approx. 10 MPa
<b>Elongation at break (UNE-EN ISO 527-1):</b>	>50 %
<b>Packaging:</b>	Kits of 10 Kg
<b>Storage:</b>	Approx 6 months in a dry place and in original unopened packaging



**SEIRE PRODUCTS SL.**  
**C/ Los Muchos P.I. Albolleque Sector III**  
**19160 Chiloeches- Guadalajara**  
**19**

**8005190**  
**EN 13813-2002**  
**SEIRE WP500**  
Polyaspartic paint  
EN 13813:SR-IR4-B2,0-AR 0,5

<b>Emission of Corrosive Substances:</b>	SR
<b>Impact resistance:</b>	IR4
<b>Abrasion resistance BCA:</b>	AR 0.5
<b>Tensile adhesion strength:</b>	B 2.0



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**8005190**  
**UNE EN 1504 - 2**  
**SEIRE WP500**  
Surface protection 2.2  
Polyaspartic paint

<b>Water vapour permeability:</b>	Class III (Sd > 50m)
<b>Absorption by capillarity:</b>	W < 0.1 Kg/m <sup>2</sup> . h <sup>0.5</sup>
<b>Adhesion:</b>	≥ 2 n/mm <sup>2</sup>
<b>Hazardous substances:</b>	Complies with 5.3

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 do not takes responsibility for the content of data sheets collected on internet from sites other than the official Seire ([www.seire.net](http://www.seire.net))

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