

## weber.tec 915

### 1- or 2- comp. flexible bitumen waterproofing thick coating

#### Highly flexible and solvent-free 2-comp. bitumen waterproofing compound

##### Fields of application

For waterproofing earth-contacting basement walls (masonry and concrete), concrete floor slabs, lean concrete (i.e. beneath floor concrete slab) and foundations in the cases of ground damp, non-pressure and pressure water.

Convenient for waterproofing earth-contacting concrete ceilings of car parking decks in case of non-pressure water.

Also for protection of socket areas of facade against splash water.

In addition, for spot-bonding of extruded polystyrene rigid-foam boards used as protective, drainage or perimeter insulation boards (depending on the specific use) in the cases of ground damp and non-pressure water on the pre-said building parts.

For use outdoors.

##### Description

**weber.tec 915** is a solvent-free and flexible 2-component waterproofing compound. With CE marking according to EN 15814 (classes W2A – CB2 – C2A). Fulfills the standard DIN 18533 for PMBC (polymer-modified bitumen thick coatings).

##### Composition

Polymer resins, bitumen emulsion, fillers, special cements, polystyrene

##### Main features

- solvent-free, hence environment-friendly
- highly flexible and crack-bridging
- high dry residue approx. 90%
- quickly resistant to rain
- suitable for any mineral substrates; no cement render is necessary on masonry
- resistant to ageing, to water attacking concrete up to the level “highly corrosive” in accordance with DIN 4030 (up to 3.000 mg sulphate per liter of water) and also to seawater

- resistant to frost and thawing salts after full drying
- sprayable with peristaltic pump and screw pump technology, e.g Wagner PC 1030 with air support

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## Technical values

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| Consistency after mixing:                       | pasty, non-sag   |
| Density after mixing:                           | approx. 0.65 kg/dm <sup>3</sup>                                      |
| Mixing ratio when used as 2-comp.:              | comp. A (bitumen) : comp. B (powder)<br>= 30 liters : 2 kg           |
| Application temperature<br>(air and substrate): | +5°C - +35°C   |
| Pot life:                                       | 1 - 2 hours  |
| Dry residue:                                    | approx. 90% by volume  |
| Waterproofing performance (EN 15814):           | W2A  |
| Crack-bridging performance (EN 15814):          | CB2  |
| Compressive strength (EN 15814):                | C2A  |
| Class of reaction to fire (EN 13501-1):         | E  |
| Clean-up:                                       | water (fresh product);<br>thinner <b>weber.sys 992</b> (dry product) |

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## Quality control

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**weber.tec 915** is subject to a regular internal quality control.

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## General notes

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- **Limits of use:** do not use for bonding insulation boards in case of pressure water; for this purpose, use a 2-component bitumen waterproofing thick coating, for ex. **weber.tec Superflex 10**.
- All characteristics mentioned in this data sheet are given for a temperature of +20°C, without draft and a relative rate of humidity of 70%.
- In case of pressure water steel-reinforced concrete must satisfy the national standards (for ex. EN 206); if not issued and if necessary, request technical advice.
- In case of sunshine, carry out waterproofing works in shadow or in the morning or evening hours.
- Do not bond protective boards or insulation boards and do not fill the excavation pit until the material has completely dried.
- Prior to backfilling the excavation pit use the drainage mat **weber.sys 983** over the basement walls in order to protect the waterproofing system.

- Comply with the national standards and/or guidelines; if not issued, and if requested, refer to the norm DIN 18533 ("Waterproofing of Ground-contacting Building Structures"), the "Guideline for Planning and Execution of Waterproofing Works with Polymer-Modified Bitumen Coatings (PMBC)" (4<sup>th</sup> edition, Dec. 2018, issued by the German Construction Chemicals Association) and the WTA leaflet "Retrospective Waterproofing of Ground-contacting Structures" (WTA = German Scientific and Technical Working Group for Building Conservation and Monument Preservation) and/or request technical advice.

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## Special notes

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- In case of rain threatening, high humidity rate and cool temperatures use **weber.tec 915** as 2-component.
- Do not add any foreign substances during mixing and application.
- Refer to the **Weber** application tip "General Guidelines for Waterproofing Works with Bitumen Thick Coatings" for full information related to important issues like assessment of water load, thickness control, and all execution details.
- The consumption figures given in this document will increase if the applicator lacks experience. In addition, the figure of 1.0 - 1.5 liter/m<sup>2</sup> for the scratch layer depending on the substrate roughness must be taken into account.

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## Substrate preparation

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- The substrate must be frost-free, solid, clean, sufficiently dry, free of tar, oil, grease, honeycombs, protruding parts, cracks and all dirty substances.
- Remove all water-repellent and adhesion-impairing particles.
- Break off edges and protruding parts.
- Round all horizontal and vertical angles in groove form.
- Close joints and recesses > 5 mm with the watertight patching mortar **weber.tec 933** up to max. 10 mm thickness, using a flat trowel
- Round the external angles between concrete slab and basement walls in groove form beforehand. Apply first a bonding layer of **weber.tec 933** mixed in brush consistency along the angles. Afterwards apply the mortar as groove mortar mixed in trowel consistency in a radius of approx. 5 cm on the fresh bondcoat, using the preformed rounded trowel "big size" (250 x 150 mm) **weber.sys Hohlkehlschlitten**.
- In case of threatening reverse damp penetration from the internal side (bottom part of the basement wall), apply **weber.tec 933** on the internal angles. Proceed in the same manner as described above.
- The substrate preparation must be adapted to the specific job site conditions.

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## Working instructions

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### Primer

- Concrete and masonry: apply the bitumen primer **weber.tec 901** diluted 1 : 10 with water, using a block brush, a deck brush, a roofer's brush, a roller or a spraying device.
- Cellular concrete and sandy substrates: apply the all-purpose primer **weber.prim 900**, using a brush, a paintbrush, a roller or a spraying device.
- After drying the works for scratch layer and waterproofing layers can begin.

### Mixing in case of use as 2-component

- When used as 2-component mix the whole packaging containing the bitumen with the 2 kg box containing the powder, using an electric drill (min. 600 t/min.) and the stirrer **weber.sys Rührpaddel no. 4** during at least 3 minutes until lump-free. Add the powder slowly during mixing.
- Take care that the product is also thoroughly mixed in the corners and at the bottom of the mixing container.

### Scratch layer

- If unsealed recesses  $\leq 5$  mm are still prevailing after substrate preparation, such as mortar pockets, open butt joints and cavities, apply a scratch layer of the bitumen coating, using a flat trowel; this layer levels the substrate and avoid blistering, i.e formation of air bubbles in the bitumen coating, especially in case of warm weather conditions.
- The scratch layer must have dried sufficiently, so that the application of the 1<sup>st</sup> layer cannot damage it.

### Waterproofing of vertical surfaces

- The product is applied in at least 2 layers.
- For the first layer use the notched trowel **weber.sys Schichtdickenkelle** (best practice) which always provides a regular layer thickness of 3 mm
- Use a flat trowel for the next layer(s); they should be applied as soon as possible, when the previous one can be no longer damaged.
- In case of ground damp and non-pressure water (W1-E) both layers can be applied "wet-on-wet".
- In case of non-pressure water on earth-contacting concrete ceilings (W3-E) and pressure water (W2.1-E) lay the woven fiberglass mesh **weber.sys 981** onto the fresh 1<sup>st</sup> layer.

## Waterproofing of horizontal surfaces

- In case of waterproofing concrete slabs against ground damp and non-pressure water (W1-E) apply the bitumen coating directly onto the concrete slab in 2 layers.
- After full drying of the waterproofing layers lay a 2-ply polyethylene foil as a protection layer/gliding layer, and afterwards the floating screed on the PE foil.
- In case of pressure water (W2.1-E) the waterproofing system is applied onto the lean concrete (i.e. beneath the floor concrete slab); lay the woven fiberglass mesh **weber.sys 981** onto the fresh 1<sup>st</sup> layer.

## Bonding of insulation boards

- In the cases of ground damp and non-pressure water distribute 6 palm-sized dots of **weber.tec 915** uniformly as glue across the backside of each board.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed with the thinner **weber.sys 992**.

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## Practical information

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### Tools:

Electric drill + stirrer **weber.sys Rührpaddel no. 4** or peristaltic pump or screw pump, notched trowel (3 mm) **weber.sys Schichtdickenkelle**, flat trowel; for grooves: preformed round trowel "big size" (250 x 150 mm) **weber.sys Hohlkehlschlitten**; for priming works: block brush, deck brush, paintbrush, roofer's brush, roller, spraying device.

### Drying time:

approx. 2 - 3 days

### Storage:

The product can be stored at least 12 months in its original unopened packaging, if kept dry, cool and frost-free. Frost destroys the bitumen component. After thawing it is not allowed to use it.

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## Consumption / yield

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|---|------------------------------|----------------------------|
| <b>W1-E:</b> ground damp and non-pressure water                       | min. 3.5 l/m <sup>2</sup>    | dry layer thickness ≥ 3 mm |
| <b>W2.1-E:</b> pressure water < 3 m immersion depth                   | min. 4.5 l/m <sup>2</sup>    | dry layer thickness ≥ 4 mm |
| <b>W3-E:</b> non-pressure water (ground-contacting concrete ceilings) | min. 4.5 l/m <sup>2</sup>    | dry layer thickness ≥ 4 mm |
| <b>W4-E:</b> splash water areas (socket areas of facade)              | min. 3.5 l/m <sup>2</sup>    | dry layer thickness ≥ 3 mm |
| As spot glue for insulation boards in case of <b>W1-E</b>             | approx. 2.0 l/m <sup>2</sup> |                            |

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## Packagings

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| Type                     | Sales unit | Number / euro-pallet |
|--------------------------|------------|----------------------|
| Plastic box (powder)     | 2 kg       | 9 boxes / carton     |
| Plastic bucket (bitumen) | 10 liters  | 60 buckets           |
| Plastic bucket (bitumen) | 30 liters  | 18 buckets           |

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*The information in this technical data sheet is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.*