

PRODUCT DATA SHEET

Davco[®] WP R188

Waterproof Rendering Mortar

DESCRIPTION

Davco[®] WP R188 is a waterproof render based on high quality cement binders, selected graded aggregates, and high performance polymers. It provides excellent workability, high bonding strength with substrates, and is not prone to debonding or cracking. Suitable for both interior and exterior wall leveling.

USES

- Suitable for concrete, AAC blocks, brick concrete structures, and cement mortar substrates
- For interior and exterior building surfaces
- Can be used in dry or wet areas
- Suitable for single-layer application thickness of 5 to 10 mm

PRODUCT INFORMATION

Chemical Base	Polymer modified cement based mortar
Packaging	25 kg/bag
Appearance / Colour	Grey powder
Shelf Life	12 months
Storage Conditions	Store in cool, dry, ventilated areas. Keep away from rain, moisture, direct sunlight, and freezing. Avoid compression or impact. Keep packaging intact.

TECHNICAL INFORMATION

Compressive Strength	≥15 MPa
Tensile Strength	≥0.2 MPa (14 days)
Shrinkage	≤0.15 %
Permeability to Liquid Water	≥1.0 MPa (28 days)
Freeze Thaw Resistance	Strength loss rate: ≤25% (GB/T 25181)

CHARACTERISTICS / ADVANTAGES

- Waterproofing and rendering in one
- High bonding strength and good dimensional stability
- Excellent impermeability
- Excellent anti sag performance, easy to apply
- Environmentally friendly

APPROVALS / STANDARDS

DW M15 P10 GB/T 25181-2019

Mass loss rate: ≤5% (GB/T 25181)

Water retention ≥88%

APPLICATION INFORMATION

Mixing Ratio	25 kg powder with 5.0–5.5 L water (water–binder ratio 0.20–0.22)
Consumption	At a thickness of 1 mm, the theoretical consumption is 1.4–1.7 kg/m ² . Actual consumption depends on substrate conditions and application thickness. For additional technical data, please contact the technical service department.
Layer Thickness	5 to 10 mm
Ambient Air Temperature	+5 °C to +35 °C
Pot Life	~1 hour (at 25°C); shorter at higher temperatures
Setting Time	3–9 h
Consistency	≤30 % in 2h *The above data are laboratory test results. Actual performance may vary depending on site conditions and construction methods.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

USES

- Recommended application temperature: 5–35°C
- Use mixed mortar within 1 hour (standard conditions). Pot life varies with temperature
- Do not add water to re-mix hardened material
- Keep the applied mortar moist during curing; curing time should not be less than 7 days
- For joints between different materials (e.g., brick-concrete, pipe channels), use galvanized steel mesh or alkali-resistant mesh (≥130 g/m²). Mesh should extend ≥100 mm on each side and be embedded between two layers of mortar
- Use appropriate personal protection. If product contacts eyes, seek medical attention immediately

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Substrates such as concrete, AAC blocks, brick - concrete, or cement mortar must be sound, clean, and free from oil, wax, release agents, and loose particles. Cavities and grooves should be filled and repaired. Concrete, AAC blocks, autoclaved sand - lime bricks, and fly - ash bricks should be treated with Davco substrate bonding enhancer. For highly absorbent substrates, pre - wet the surface, ensuring no standing water before application.

APPLICATION METHOD / TOOLS

1. Rendering should start only after substrate preparation.
2. Mix 25 kg powder with 5–5.5 L clean water. Adjust water content according to site conditions. Mix with a low - speed electric mixer (500–800 rpm) for 3–5 minutes until lump - free. Rest for 5 minutes and mix again before use.
3. Maximum thickness per layer is 10 mm. For thickness over 10 mm, apply in multiple layers. Each layer must be compacted and leveled within the workable time.
4. If total rendering thickness exceeds 35 mm, reinforcement (e.g., metal mesh) must be used.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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