

# weberprim 500 F

## Epoxy based, solvent-free, filler added substrate preparation primer

Technical Data Sheet  
Issued On: 16.06.2025  
Revision No: 001

### ■ Description

Epoxy based, two component, low viscosity, solvent-free, filler added, deep penetrating substrate preparation primer.

### ■ Advantages

- Perfect adhesion on absorbant substrates
- Easy application using roller or airless spray
- Deep penetration on substrates
- Suitable for interior and exterior use

### ■ Application areas

Used as primer on absorbant substrates like concrete, light concrete, cement based render, or wood prior to polyurea, polyurethane, epoxy based waterproofing applications and various floor coverings; also impregnates concrete substrates and used for protection against abrasion, chalking and chemicals.

Used for repairing cracks, defects and gaps by mixing with sand.



### ■ Application substrates

Interiors and exteriors;

- Concrete,
- Cement based renders and screeds,

Please consult us for all other application substrates.

### ■ Preparation of substrates

- The substrate should be clean, dry and free from any oil, grease, coating and other dirt which may prevent adhesion.
- If necessary, the substrate should be grinded using suitable grinding machines to remove the weak concrete, to open pinholes and gaps. Glazed surfaces of tiles should be roughened. After grinding, dust on the substrate should be removed by using brush or vacuum cleaner.
- Any cracks, gaps and segregations should be repaired using suitable epoxy or cement based repair mortars. Weak, crumbling or broken pieces should be removed from the surface.
- Check substrate humidity before the application, make sure it is below 4%.
- The surface should be completely cleaned of dust with a brush and vacuum cleaner.

- The substrate should be sound and strong enough.
- Do not make the application on low quality screeds. Minimum compressive strength of the substrate should be 25 N/mm<sup>2</sup>, minimum pull-off strength should be 1.5 N/mm<sup>2</sup>.
- Wait at least 28 days for fully curing while making applications on fresh concrete.

### ■ Application conditions

- Substrate and ambient temperature between +10°C and +35°C.
- Temperature of the substrate should be at least 3°C above the dew point.
- Avoid application in extremely humid (>80%) and/or hot weather conditions.
- Should not be used on frozen or melting substrates, or substrates with the risk of frost within 24 hours.

### ■ Application

- A and B components of **weberprim 500 F** should be mixed using a low speed mixer, paying attention to mixing ratio, to a homogenous consistency for about 3 minutes.
- The mix should be spread on substrate using steel trowel or floor squeegee and penetrated using roller.
- Two coats of application is recommended if not sure about the strength of substrate.
- Pot-life of epoxy based products are limited. Consider that the pot-life and curing time decrease in high temperatures and increase in low temperatures. Mix the amount to be used immediately especially in hot ambient conditions or transfer the mixed product to a wide container or application area. Do not use the mix which has started gelling.

### ■ Application tools

Steel trowel, floor squeegee, roller

### ■ Consumption

0.3-0.5 kg/m<sup>2</sup> (depending on application conditions)

## Points of attention

- Avoid application on wet or frozen substrates.
- Make sure the substrate is strong enough for the application. Compressive strength of concrete should be at least 25 N/mm<sup>2</sup> and pull-off strength should be at least 1.5 N/mm<sup>2</sup>.
- Product components and mixture should not be diluted with any substance such as water.
- Avoid application below +10°C.
- High temperatures decrease curing time whereas low temperatures increase curing time, consumption increases in low temperatures.
- Beware the mixing ratio.
- Substrates should be protected from moisture and rain for 24 hours after the application.
- All tools used should be cleaned with thinner right after the application before drying.
- Beware condensation on substrates.

## Technical specifications

PRODUCT	weberprim 500 F
Chemical structure	Two component epoxy resin
Density	Mixture: 1.25 g/cm <sup>3</sup> Comp. A: 1.40 ± 0.10 g/cm <sup>3</sup> Comp. B: 1.00 ± 0.05 g/cm <sup>3</sup>
Appearance/Colour	Mixture: Greenish beige Comp. A: Beige - transparent liquid Comp. B: Transparent liquid
Mixture viscosity (25°C) (EN ISO 2555)	2500 ± 400 mPa.s (#4-30 rpm)
Solid content	100%
Pot-life	60-70 minutes (23°C ve %50 R.H.)
Dust dry	6 hours (23°C and 50% R.H.)
Open to traffic	18-24 hours (23°C and 50% R.H.)
Full curing	4 days (23°C and 50% R.H.)
Hardness (Shore D) (DIN 53505)	78
Application temperature	Between +10°C and +35°C
<b>PERFORMANCE</b>	
Compressive strength (EN 13892-2)	1 day: 63.7 N/mm <sup>2</sup> 7 day: 67.5 N/mm <sup>2</sup> 28 day: 67.5 N/mm <sup>2</sup>
Flexural strength (EN 13892-2)	1 day: 73 N/mm <sup>2</sup> 7 day: 30 N/mm <sup>2</sup> 28 day: 30 N/mm <sup>2</sup>
Bond strength (concrete) (EN 13892-8)	1 day: 1.5 N/mm <sup>2</sup> 7 day: 2.5 N/mm <sup>2</sup> 28 day: 2.8 N/mm <sup>2</sup>

## Storage

Packaging	20 kg set A Component: 16.8 kg metal bucket B Component: 3.2 kg metal bucket
Colour	Mixture: Greenish beige Comp. A: Beige - transparent liquid Comp. B: Transparent liquid
Shelf Life	<ul style="list-style-type: none"><li>• 1 year from date of manufacture when stored unopened and undamaged, between +10°C and +35°C, in a dry, moisture-free environment.</li><li>• Packages should be kept tightly closed when not in use.</li><li>• Packages should be protected against frost.</li></ul>

## Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses, protective clothes).
- Protect your eyes/face.
- Avoid direct contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.
- Please read Safety Data Sheet (SDS) for further safety information, waste management and/or product disposal

## LEGAL DISCLAIMER

Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. is not responsible for any errors arising from the use of product beyond its intended purpose or not complying the application procedures mentioned above.



Access detailed documentation of the product by scanning QR or trweber.

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures.

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