



weberprim Epox 501



Water based epoxy primer for waterproofing and floor coating systems on porous & non porous substrates



Product description

weberprim Epox 501 is a transparent, two component epoxy primer with excellent surface wetting and penetrating properties.

Typical application

weberprim Epox 501 is used as a universal primer in waterproofing, sealing and floor coating applications on absorbent and non-absorbent surfaces.

Features and benefits

- Easy to mix and apply with a lambswool roller, rubber wiper or brush
- Excellent adhesion to porous and non-porous substrates
- Seals concrete pores
- Can be diluted with water
- Stops dust generation
- VOC free, no obnoxious smell

Method of application

Surface requirement and preparation

- Concrete substrate must be sound of sufficient compressive strength of min 20 MPa and pull off strength of 1.5 N/mm².
- The moisture in the concrete floor must be less than 5% with no chance of any rising moisture or potential osmosis problems arising from the concrete.

Surface preparation

- Substrate should be sound, levelled and clean without any bond inhibiting substance, like dust, dirt, grease, oil, laitance or any loose particles to ensure maximum bonding between substrate and subsequent coating system.

- Concrete substrates must be prepared mechanically using rotary grinding equipment to remove laitance and achieve rough surface profile.
- All dust on floor must be removed ideally by vacuuming prior to primer application.

New concrete substrate

- Floor should be at least 28 days old and have a moisture content of less than 5% before proceeding with primer application. Laitance and deposits on new concrete floors must be removed mechanically using abrasive blast cleaning / scarifying / rotary grinding equipment to achieve a rough textured surface.

Old concrete substrate

- Concrete surface must be free from any bond inhibiting surface like dirt, oil, grease, wax, fatty acids, coatings, any surface treatments, etc.
- If contaminated with oil, grease, wax, fatty acids the surface must be treated with alkaline / detergent scrubbing, steam cleaning or chemical cleaning. Acids and alkalis can be removed by neutralizing to form a water soluble salt and then high pressure water cleaning and mopping it off to dry state.
- Hydrophobic contaminants can be identified by a simple water drop test. Other contaminants can be identified by pH.
- In the areas where the contaminants cannot be removed, complete removal and replacement of the contaminated surface is typically considered
- Weak concrete must be removed and surface defects such as blowholes, excess porosity, voids and must be fully exposed and suitably treated to achieve smooth uniform surface.
- High spots must be removed by grinding.

Product preparation

- After opening the bucket, mix the components of material individually with a slow speed mechanical stirrer until a homogeneous mix is formed.
- Gradually add entire contents of part B to part A and mix for 2 minutes until a homogenous mixture is formed.
- It is recommended to mix the contents of base and hardener in full and avoid part mixing as properties of products may get altered due to incorrect mixing ratio.
- Dilute this mix with 15-20 pc of water by weight to achieve application viscosity.
- Allow the mixture to stand for 5 minutes.

Primer application

- For waterproofing applications, surface must be maintained in SSD condition before application
- Apply a coat of weberprim Epox 501, as primer using a roller or a rubber wiper blade. Small inaccessible areas can be covered with a paint brush.
- Wait 5-6 hours for the primer to dry partially before application of subsequent coat.
- If the substrate is porous or dry patches are visible on surface, another coat of primer may have to be applied
- Application of subsequent coat must be done while the primer is slightly tacky.

Properties

| Properties | Test method | Result |
|-------------------------|--------------------|--|
| Mixing Ratio | | 2 : 1 (by weight) |
| Colour | | Base : Milky White liquid Hardener : Clear liquid |
| Recommended thickness | | 50 – 80 microns |
| Adhesion to concrete | ASTM D 4541 : 2017 | > 1.5 MPa (concrete failure) |
| Application temperature | | 10°C to 40°C |
| Pot Life @ 30°C | | 1 hour |
| Surface Dry | | 45 mins |
| Overcoating Time | | 4 – 6 hours |

Precautions

- Do not apply if the temperature is in excess of 40°C or less than 10°C.
- Make sure the applied coat do not get wet before complete curing.
- Always apply during falling ambient and substrate temperatures. If applied during

rising temperature, pin holes may occur from rising air.

- Parapet walls should also be coated atleast to a height of 1 feet.

Limitations

- If the surface has excess moisture, then there is possibility of blister formation as in case of all liquid applied membrane coating.
- Not recommended on substrates with rising moisture
- Do not allow water to remain between coats until final coat has totally cured.

Coverage

100 – 200 grams per sq. mt in 1 or 2 coats.

This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, application method and required finish, affect the consumption ratio.

Packaging

webeprim Epox 501 is supplied in 5 kg pack consisting of

Component A - 3.35 kg

Component B - 1.65 kg

Shelf Life

9 months from the date of manufacturing if stored in original and unopened packaging in a cool & dry place away from direct sunlight.

Condition of sale

Sold subject to the company's condition of sale which are available on request.

Caution

There may be irritation caused in eyes and skin in case of contact for a very long time. Please seek medical help if the problem persists for a long time. The product is recommended to be applied with gloves.

Disclaimer

The user should determine the usability of the product for its intended use. Our products are manufactured under the Saint-Gobain quality standards, and subjected to strict quality control procedures. Since the company has no control over site conditions and installation procedures, the company will not be responsible under any circumstances for any loss, damage or liability from incorrect usage.



FDS / SDS / DoP
Product information



<https://goo.gl/d39avs>

Scan QR code to download android app for product information and technical data for our complete product range, directly from your smartphone.



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