

weber.tec 772

Surface protection coating

Surface protection system for concrete and repair mortars, with carbonation-inhibiting effect

Fields of application

In combination with weber.rep R4 duo as concrete repair mortar, weber.tec 772 is a surface protection within the systems OS-D II resp. OS-5a. As crack-bridging coating for heavily weathered facades; especially with high driving rain loads, and with blocking effect against carbon dioxide and sulphur dioxide. Also for concrete surfaces demanding a resistance to frost and de-icing salts. Furthermore, as durable coating for other mineral substrates (for e.g. lime or lime-cement renders). For exterior non-pedestrian and non-vehicular traffic surfaces.

Description

weber.tec 772 is a 1-component elastic dispersion-based coating. It fulfills the standard EN 1504-2 and the German specifications for concrete protection (TL-OS). In combination with the concrete repair mortar weber.rep R4 duo it meets the requirements for class OS-5 as defined by DIN V 18026 resp. for class OS-D II according to ZTV/ING (Additional Technical Terms of Contract and Guidelines for Civil Engineering Works).

Composition

Acrylate dispersion

Main features

- lets the substrate "breathe"
- open to diffusion of water vapour
- high water-repellence
- resistance to frost and de-icing salts

- carbonation retarding
- crack-bridging

Technical values

Application temperature (air and substrate):	+8°C - +30°C
Density:	approx. 1.37 kg/dm ³
Delay between coats:	min. 3 hours
CO ₂ permeability:	S _D > 50 meters
Water vapour permeability:	class I
Water vapour diffusion resistance coefficient (μ)	approx. 1600
Capillary absorption and permeability to water (w):	< 0.1 kg/m ² h ^{0.5}
Adhesion tensile strength:	> 0.8 N/mm ²
Crack-bridging:	B 2 (at -20°C)
Class of reaction to fire:	E

Quality control

weber.tec 772 is subject to a regular quality control by external monitoring and self-monitoring.

General notes

- All characteristics mentioned in this data sheet are given for a temperature of +23°C and a relative humidity rate of 50%.
- The substrate temperature must be at least 3°C above the dew point temperature to avoid risk of condensation.
- The over-paintability of old coatings must be checked case-by-case.
- Like all coloured coatings, slight colour differences are unavoidable due to different product batches. If possible, order the whole material quantity for the building site in one. If any buckets of different batch numbers, mix them with one another.
- The relative humidity rate must not exceed 85%.

Special notes

- Do not add any foreign substances during mixing and application.

Substrate preparation

- The substrate must be clean, dry, free of cement laitance, oil, grease and dust, as well as free of all adhesion-impairing components.
- It is recommended to clean concrete or render surfaces, e.g. by sand- or granulate-blasting, high-pressure water jet etc.
- Ensure by appropriate mechanical means, for e.g. shot blasting, milling etc., that the average tensile strength (pull-off strength) of substrate is at least 1.5 N/mm².
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

- The product is ready-to-use; however, it is recommended to stir thoroughly before use, using an electric drill and an appropriate stirrer.
- Surface protection on concrete (system class OS-DII resp. OS 5): first apply the priming and hydrophobic product weber.tec 770 diluted in a ratio of 1 : 4 parts by volume with water; afterwards apply weber.tec 772 undiluted, in at least 2 coats, using a roller, brush, airless sprayer.
- Surface protection in combination with the PCC fine-graded re-surfacing mortar weber.rep R4 duo (system class OS-D II resp. OS-5 a): first apply weber.tec 772 diluted with 10% by weight of water; afterwards apply weber.tec 772 undiluted.
- Respect the drying time of min 3. hours between each operation.
- Spraying is carried out with a suitable airless sprayer at a continuous pressure of approx. 160 bar, a spray angle of approx. 40° and a recommended nozzle size of 0.63 mm.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Practical information

Colours:

approx. RAL 7023 (concrete grey), approx. RAL 7032 (pebble grey), approx. RAL 9010 (pure white) upon request

Drying time:

min. 4 hours

Tools:

Stirrer, brush, roller, airless sprayer (pressure 160 bar + nozzle size 0.63 mm)

Storage:

The product can be stored at least 12 months in its original unopened packaging, if kept dry and frost-free (not below +10°C). Frost will destroy the product. After thawing it is not allowed to use it.

Consumption / yield

depending on substrate approx. 700 - 900 ml/m²

Packagings

Type	Sales unit	Number /euro-pallet
Plastic buckets	15 liters	24 buckets
