

weber.tec 771

Surface protection paint

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

Fields of application

As surface protection for concrete and repair mortars, in particular for surfaces which have been repaired with the concrete repair mortar weber.rep R4 duo, within the systems OS-B/OS-2 resp. OS-C/OS4. Also as paint for protection of heavily weathered facades, especially when exposed to driving rain, and with blocking effect against aggressive atmospheres, such as carbon dioxide and Sulphur dioxide. Furthermore, as durable paint for other mineral substrates (for e.g. lime or lime-cement renders). For non-pedestrian and non-vehicular traffic surfaces.

Description

weber.tec 771 is a 1-component acrylic dispersion-based paint. It fulfills the standard EN 1504-2 and the German specifications for concrete protection (TL-/TP-OS). In combination with the hydrophobic liquid weber.tec 770 it meets the requirements for class OS-2 as defined by DIN V 18026 resp. for class OS-B according to ZTV/ING (Additional Technical Terms of Contract and Guidelines for Civil Engineering Works). In combination with the concrete repair mortar weber.rep R4 duo as re-surfacing mortar it also fulfills the specifications for class OS-4 (DIN V 18026) resp. for class OS-C (ZTV/ING).

Composition

Acrylate dispersion

Main features

- lets the substrate "breathe"
- weather-resistance
- dirt-repellent and long-lasting

- highly water-repellent
- open to diffusion of water vapour

Technical values

Application temperature (air and substrate):	+5°C - +30°C
Density:	approx. 1.31 kg/dm ³
Drying time:	approx. 6 hours
CO ₂ permeability:	S _D > 50 meters
Water vapour permeability:	class I
Capillary absorption and permeability to water (w):	< 0.1 kg/m ² h ^{0.5}
Adhesion tensile strength:	≥ 1 N/mm ²
Class of reaction to fire:	E

Quality control

weber.tec 771 is subject to a regular quality control by external monitoring and self-monitoring.

General information

- All characteristics mentioned in this data sheet are given for a temperature of +23°C, without draught 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 protection paints must be checked case-by-case.
- Like all coloured paints, 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.

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-B resp. OS 2): first apply the priming and hydrophobic liquid weber.tec 770 diluted in a ratio of 1 : 4 parts by volume with water; afterwards apply weber.tec 771 undiluted, at least in 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-C resp. OS-4): first apply weber.tec 771 + 10% by weight water; afterwards apply weber.tec 771 undiluted.
- Respect the drying time of approx. 6 hours between each operation.
- 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:

approx. 6 hours

Tools:

Stirrer, roller, brush, airless sprayer

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

as protective coating in 2 coats approx. 0.3 l/m²

Packagings

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