

TECHNICAL DATA SHEET

ZAPRAWA 456

Repair mortar 5-50 mm in the concrete repair system



Areas of application

Polymer-cement mortar (PCC) for non-structural repairs for use in buildings and engineering offices. Mortar 456 is intended for executing the primary, re-profiling repair layer in the concrete repair system. The system can be used to repair concrete, damaged reinforced concrete affected by mechanic or corrosive factors. The system is suitable for repairing such elements as: balconies, terraces, supports, piles, lintels, etc. It may be also used to execute local repairs or fill minor cavities in other concrete surfaces (e.g. ASR). Mortar 456 can serve as the final finishing layer with elements requiring ideal surface smoothness, or can serve as a base for the Gładź 460 finishing coat.


Properties

- High adhesion to concrete and steel
- Low-contracting
- High durability increment
- Waterproof
- Frost-proof

Application procedure



Technical data

Item number	39393
Packaging	
Quantity per unit	25 kg/unit
Unit per pallet	48 unit/Pal.
Grain size	0-2 mm
Colour	Grey
Consumption	1,9 kg/m ² /mm
Water requirement	approx. 4 L/unit
Tensile adhesive strength	≥ 0,8 MPa
Compressive strength	≥ 25 MPa (28 d)
Pressure resistance	≥ 5 MPa (28 d)
Possibilities to enter	approx. 24 h
Chromium content	≤ 0,0002 %

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Item number	39393
Processing time	60 min

Material base

- Mineral fillers
- Modifying additives
- Polymers
- Portland cement

Application conditions

The groundwork must be solid, rigid, non-deforming, cleared of dust, soot, grease, or anti-adhesive solutions, etc.

Surface

Treat the cleared groundwork with zaprawa 451. Surface of concrete should be rough with good adhesion and demonstrate resistance to tearing off $>0.8\text{MPa}$. Surface of concrete must be cleaned by milling, shot blasting, etc. Reinforcing steel must be cleaned by means of the stream and rubbing method to cleanliness class of at least Sa2. Concrete cover around reinforcing steel must be removed to the place where there is no corrosion. Cleaned rods should not be left without covering them with mortar 451! Surface of concrete, before application of the bonding layer, must be moistened with water slightly (matt and humid surface). Concrete, reinforced concrete: Clean, treat with Mortar 451

Preparation

Dry mixture must be kneaded with an appropriate amount of clean, cool water, mixing manually or mechanically using a stirrer for mortars. Time of mechanical mixing should be 2-3 minutes. After mixing the first batch of mortar, you must check its consistency, it should be semi-liquid. If necessary, correct the amount of added water. Note down the particular proportion of mixing with water so that next batches of the mortar will be prepared in the same way. Do not mix the hardened grouting mixture again.

Application procedure

Apply the mortar on the 451 binding layer with a steel trowel, maintaining the wet-on-wet principle. Spread Zaprawa 456 on the entire surface, rubbing it firmly into the groundwork. Pay attention not to leave empty spaces. The mortar can be smoothed with a steel or wooden trowel moistened in water, or rubbed with a polystyrene float or a sponge float. This mortar may be the final layer, if the application of a repair coat layer 460 is envisaged, the surface of the mortar 456 should not be smoothed. The coat can be done after 24 hours of drying the repair mortar, other works such as laying ceramic tiles, painting etc. can be performed after stabilization technical parameters (after about 2 weeks), these recommendations do not apply to parquet floors, which can be laid after the undercoat has dried completely, which involves checking the humidity.

Instructions

When executing works in adverse ambient conditions, apply suitable covers to limit the effect of weather conditions. Ventilate the rooms repaired, but do not allow for drafts or excessively fast drying resulting from exposure to sunrays or heating systems.

Storage

Up to 12 months from the date of manufacture, in dry places and in intact packaging

General information

This product data sheet replaces all its previous versions. The information, included in this technical card, represents our current knowledge and practical experience. This is general information only which shall not obligate the manufacturer to take any responsibility either for workmanship or for the manner of use. For there may be differences and specific execution conditions. The product shall be applied in accordance with required technical

ZAPRAWA 456

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knowledge and OHS rules. Avoid contact with skin and protect eyes. In case of contact with eyes, rinse them up with a large quantity of clean water and consult a doctor. It shall be recommended to use gloves, safety goggles and protective clothing. All technical data is given for the temperature of 20 degrees Celsius. These temperatures apply to air, bed and embedded material. All technical data listed in this product specification has been determined under laboratory conditions.