



MORTAR 451

Contact and anti-corrosive mortar in the concrete repair system

Areas of application:	<p>Zaprawa 451 is intended for executing contact layers (adhesive bridge) and to provide anti-corrosive protection in the concrete repair system.</p> <p>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).</p> <p>Offering high carbonation resistance, the system provides sufficient protection of reinforcing steel against corrosion.</p> <p>It is a binding layer between the repaired concrete or reinforced concrete element and Zaprawa 456 or Gładź 460.</p>
Product features:	<p>High adhesion to concrete and steel</p> <p>Protects concrete and steel against corrosion</p> <p>High carbonation resistance</p> <p>Waterproof</p> <p>Frost-proof</p> <p>Facilitates the execution of further works</p>
Material base:	<ul style="list-style-type: none"> • Portland cement • Mineral fillers • Polymers • Modifying supplements
Processing:	
Conditions for application:	The groundwork must be solid, rigid, non-deforming, cleared of dust, soot, grease, or anti-adhesive solutions, etc.
Surface:	Remove corroded and carbonated concrete, clean the steel.
:	<p>Concrete: Remove corroded and carbonated concrete, moisten with water, if necessary.</p> <p>Reinforcing steel: Clean to at least Sa2</p>
Preparation:	Do not mix hardened grout with water or fresh material.
Processing:	<p>Apply the mortar on the repaired surface using a broom or a brush with hard, short fibers, rubbing it into the groundwork.</p> <p>Apply successive layers of the system on the wet base, maintaining the "wet-on-wet" principle. Should the base layer dry up before applying the next layer, scrape and re-apply Zaprawa 451.</p>
Notes:	<p>When executing works in adverse ambient conditions, apply suitable covers to limit the effect of weather conditions.</p> <p>Ventilate the rooms repaired, but do not allow for drafts or excessively fast drying resulting from exposure to sunrays or heating systems.</p>
Storage:	In dry areas and in non-damaged packaging, up to 12 months from the date of manufacture
Product compliant with:	EN 1504-3



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Amount per unit

- 25 kg/bag, 48 Stk./Pal

Technical data

Shelf life after mixing with water	Up to 60 minutes
Surface drying	2 hours (at +20°C)
Maximum grout layer	3mm
Water mixing proportions	5.7-5.8 liters of water per 25 kg of mortar
Dry mix consumption	c.a. 1.6 kg of the mortar per 1 m ² per 1 mm of layer thickness
Soluble chromium VI content	≤ 0.0002%

General notes:

This sheet supersedes all previous versions. The information included in this technical sheet represents the current knowledge and practical experience. The information sheet contains general information only and shall not be construed as any basis for manufacturer liability for performance and use. Differences and specific execution conditions may occur. The product is to be used according to the required level of technical knowledge and OHS principles. Avoid skin contact and protect the eyes. In the case of eye contact, wash the eyes abundantly with clean water and seek medical assistance. The use of gloves, goggles and protective clothing is recommended.