

MICRO CONCRETE

NZR 500

MICROCONCRETE 500 IS A POLYMER-MODIFIED POURABLE TECHNICAL MORTAR WITH HIGH SULFATE RESISTANCE, HIGH ADHESION, AND HIGH MECHANICAL STRENGTH WITH HIGH EXPANSIVE POWER IDEAL FOR CONCRETE RECONSTRUCTION AND ANCHORAGE BY CASTING COMPOSED OF CEMENTS, SELECTED AGGREGATES AND SUITABLE ADMIXTURES. THE PRODUCT COMPLIES WITH THE UNI EN 1504-3 STANDARD. WITH HEXAVALENT CHROME REDUCER: PRODUCT FORMULATED AGAINST THE DEVELOPMENT OF HEXAVALENT CHROMIUM, AN IMPORTANT CARCINOGENIC AGENT FOR HUMANS (GROUP I ACCORDING TO IARC).



PAPER BAG

PRODUCT TYPE IS
INDICATED ON BAG SIDE

USES

MICROCONCRETE 500 is ideal for restoring and reconstructing missing parts on concrete structures, pillars or curbs, floors, steps, pediments, etc., and particularly suitable for anchoring plates and brackets in general where the product can be poured directly.

ADVANTAGES

- Single-component can also be used for high thicknesses
- Anti-shrinkage and fibrous
- High expansive power
- High adhesion to the substrate and high mechanical strength
- Resistant to pollutants and weathering
- Easily applicable
- Highly pourable

WARNINGS

- Do not use for thicknesses less than 1 cm
- Do not use for thicknesses greater than 15 cm
- Do not use on plaster substrates
- Do not use on painted substrates
- Do not use on surfaces with poor mechanical strength



TECHNICAL DATA

| | |
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| Appearance | powder |
| Color | gray |
| Maximum product particle size UNI EN 1015-1 | < 3 mm |
| Fresh apparent bulk density UNI EN 1015-6 2320 | ± 50 kg |
| Application time (pot life) | ± 30 minutes |
| Application temperature | + 5° to 30° C |
| Mechanical compressive strength | > 30 MPa at 1 day >55 MPa at 7 days >70 MPa at 28 days |
| Mechanical resistance flexural | > 4 MPa at 1 day >6 MPa at 7 days >7 MPa at 28 days |
| Reaction to fire UNI EN ISO 1182-1716 | Euroclass A1 |
| Tear resistance (adhesion on concrete) | > 2.0 MPa |
| Elastic modulus | > 26,000 N/mm ² |
| Exposure class | XC4 |
| Slump | S5 |
| Mixing water | 14% - approx. 3.5 liters sack |
| Supply | Silos - 25 kg sack - 64-sack platform |
| Storage | If kept in its original packaging and properly stored in a dry, sheltered place, the product maintains its characteristics for one year. This product complies with the prescriptions of Reg. (EC) N. 1907/2006 (REACH) - Annex XVII, article 4, the aggregate contains a reducing additive with effectiveness for 12 months. |
| Consumption | ± 18 kg/m ² per 1 cm thickness |

SUBSTRATE PREPARATION

Surfaces to be treated should be hard, cohesive, clean of dust or grease and of any loose or detaching parts. Completely free oxidized reinforcement by removing rust with wire brush or sandblasting. Eurocode 2 establishes the thickness of reinforcement coverings in reinforced concrete and prestressed concrete in relation to the exposure classes defined by UNI EN 206. It is therefore advisable to check together with the Construction Management or by contacting our technical office the thickness of the iron covers; in any case, do not leave the reinforcing bar halfway visible but free it completely from the concrete. Thoroughly wet the surfaces to be restored. Use CONCRETE ANTICORROSIVO to treat the reinforcing bars and, once it has set, apply a second coat (reinforcing bars and adjacent concrete) over the entire surface to be restored, thus creating a bonding coat for the next layer of reinforcing mortar, which must be applied within the next hour.

MIX PREPARATION

Check the material for lumps. Mix MICROCONCRETE 500 with a drill at low speed with only 14% potable water (about 3.5 liters bag) until a homogeneous mixture is achieved. For large quantities, the product can be mixed in a concrete mixer, taking care to gradually add material and water and mixing the product for at least 5 minutes once the last portion of water has been added. Do not add more lime, cement or water to the product than prescribed.

APPLICATION

Do not apply to substrates that are frozen, thawing, or at risk of freezing in the next 24 hours. Do not apply in full sun. Apply MICROCONCRETE 500 consecutively in a single layer for maximum thickness of 15 cm. Take care of the curing of the applied product by moistening for the first few days, especially in hot and windy climates even in the next 48 hours after application. The applied product should be protected from rain, beating sun and strong ventilation.