TKK
CEMENTOL EXPERT

ELASTOSIL 34 PRAH

Powdered bonding agent and admixture for the preparation of repair and adhesive mortar

AREA OF USE

Cementol Elastosil 34 PRAH is a redispersible powder based on synthetic resin, which is added to cementitious mortar or concrete to achieve:

- Greatly improved adhesion of fresh mortar/concrete to already hardened concrete or mortar,
- Improved resistance of hardened mortar/concrete to higher mechanical, physical and chemical load (action of corrosive salts, diluted acids and alkalis, oils, and gasoline),
- Improved workability,
- Improved impermeability to water,
- Improved abrasion resistance,
- Higher flexural and compressive strength.

Due to the stated properties, Cementol Elastosil 34 PRAH is most often used for the production of high quality dry-mix repair and adhesive mortars with highly improved mechanical and chemical properties.

TECHNICAL CHARACTERISTICS

Characteristic	Declared value
Appearance	White powder
Bulk density	approx. 500 g/L

ACTION

The polymer molecules are deposited on the surface of the cement particles during hydration and aggregate to form a continuous film after hydration is complete. The resulting polymer network interweaves the hardened cement gel and connects the aggregate and cement paste. This improves the quality of the hardened cement paste as well as the contact between the cement paste and the aggregate grains.

CONSUPTION AND INSTRUCTIONS FOR USE

The recommended dose is 5 – 10 % of cement weight (5 – 10 kg per 100 kg of cement), depending on the desired effects.

Other types of admixtures, such as antifoamig agents, air-entraining admixtures, water resisting admixtures, water reducing agents and mineral additives, may be added to the industrial prepared dry-mix mortar that contains Cementol Elastosil 34 PRAH in order to achieve required specific properties, but only after prelimenary investigations have beed executed.

PREPARATION OF FRESH REPAIR MORTAR

Substrate preparation
Repair or adhesive mortar is applied to a pre-prepared substrate:

The substrate must be clean, firm and moistened. Remove all impurities, dust, old paints, greases, and poorly bonded parts first.
It is best to soak the substrate thoroughly with water the day before you begin working, and then remove any excess (standing) water just before you begin, so that the surface is "matte" moist.

Preparation of repair or adhesive mortar
Prepare only the amount of repair or adhesive mortar that can be used immediately.
Add Cementol Elastosil 34 PRAH into a dry mixture of cement and sand and mix thoroughly. Then add mixing water during mixing. Add as much water until mortar with desired workability is achieved and mix it for 3-5 minutes. Allow the mortar to rest for few minutes, then stir briefly again and use.

Installation and curing
Mortat prepared in this way is applied / installed on a previously properly prepared substrate.
Freshly installed mortar must be protected from excessive drying (wind, drafts, sun) with damp tarpaulins, foils, or fresh concrete protection agents Kontrasol 22 V or Kontrasol NOVI. In winter conditions, however, we must take care of frost protection.

Cleaning of work accessories
The mixer, containers, and tools must be washed with water as soon as the work is finished.

PACKAGING

bags 25 kg

STORAGE

- Store the product in tightly sealed packaging in a dry, airy location. Protect it from damage, water and moisture, and direct sunlight.
- A properly stored product has a shelf life of at least one year after the date of manufacture.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

HEALTH, SAFETY AND ECOLOGY

No special measures are required when working with Cementol Elastosil 34 PRAH. Follow the general instructions for working with chemicals: take care of cleanliness, do not eat, drink or smoke while working. After finishing work, wash hands thoroughly with water.
More information on safe handling and disposal of the product is available in the safety data sheet, which is provided on request, and is also available from the dealer or distributor where you purchased the product.

WARNING

Instructions and recommendations are given based on examinations in our laboratories and experience to date. Due to specific conditions and work methods, preliminary tests are advised for every type of use, for each individual case of use of the product alone, or in combination with other admixtures.

Since we cannot influence the course of work, we cannot be held responsible for its quality!

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