

Construction admixture & cohesion improver

UZIN POLYACRYL

Special dispersion for improving flexibility and hydrophobic setting properties of cement mortars

Description:

Improves flexibility and aids the hydrophobic performance of hydraulic mortars. Mixing the thin- and medium-bed mortars with UZIN POLYACRYL additive produces flex mortars with special bond and deformation properties. Especially suitable for substrates which are moisture-sensitive or subjected to deformation, e.g., heated screeds, balconies, terraces, etc. as well as smooth, dense tile backings and for laying tiles on tiles. For interior and exterior applications.

Suitable for:

- ▶ Cement based screeds, concrete and aerated concrete
- ▶ Ceramic tiles, natural or artificial stones, bricks etc. grouting.
- ▶ Gypsum, calcium-sulphate plasters, masonry mortars, renders etc.
- ▶ Steel, glass, asphalt, wood, polystyrene etc.
- ▶ Basements, terraces, water supply networks, irrigation, drainage, potable water tanks and swimming-pools.

UZIN POLYACRYL is a highly concentrated, special liquid dispersion that is added to mixing water. Improves quality of thin-bed mortars, adhesion, and flexibility of tiling adhesive mortars. It produces a flex mortar with special bond and deformation properties. Especially suitable for strengthening and repairing porous surfaces such as concrete, etc. When mixed with cement screeds because it increases the adhesion of the new coating to the existed substrate. Also, it increases water repellency and therefore final mixture acts as an impermeable barrier.

Product benefits / features:

Aqueous dispersion additive, non-flammable with minimal odor. Fluid, it prevents the rapid absorption and water loss from cement paste during the early drying stages, thereby it protects from shrinkages cracks. Especially

recommended for repairs, levelling, sealing, insulation works, ceramic tile and mosaic construction works, glass blocks installation, etc.

Composition: Styrol-butadiene copolymers, water, wetting and defoaming agents and preservatives.

- ▶ Improves adhesion
- ▶ Increases the flexibility of the mortar
- ▶ Increases the water-repellent property of mortars
- ▶ Can be mixed easily with water
- ▶ Cement tolerant

Technical Data:

Packaging:	Plastic containers PE
Sizes:	10kg, 5kg and 1kg
Storage:	minimum 12 months
Color liquid/dry:	Milky/transparent
Consumption:	5-20% w/w e.g. 2.5-10kg per 50kgs cement
Minimum working temperature:	10°C
Ideal working temperatures:	15 - 25 °C
Drying time:	Depends on screed's consistency*

* At 20 °C and 65% relative humidity. See also "Application table".

UZIN POLYACRYL

Application:

1. When adding POLYACRYL, combine 1 part dispersion and 2 parts water (= mixing liquid) and blend this with the thin-bed mortar (e. g. 5 liters UZIN POLYACRYL and 10 liters water). Allow the container to reach room temperature before use and shake well, and then decant the contents into a clean, oval bucket.
2. Clean tools with water immediately after use.

Consumption:

UZIN POLYACRYL covers a wide range of applications. Its consumption depends on the following parameters:

- ▶ The type of cement and its content in the mortar
- ▶ The characteristics of mortar aggregates
- ▶ The final use of the mortar

Examples of consumption:

- As a mortar admixture: 0.3-0.6lt/10lt of mortar (Different dilution ratios can be determined after conducting preliminary tests)
- As an adhesion reinforcing liner: 0.10-0.16lt/m²/mm of layer thickness (until a mixture of the desired consistency is obtained)

Important notes:

- ▶ Do not use at temperatures below 5°C and above 25°C.
- ▶ Only use POLYACRYL in conjunction with hydraulic setting codex thin- and medium-bed mortars.
- ▶ Clean tools immediately after use with water.
- ▶ Shelf life 12 months. Store in cool and dry conditions. Protect from frost. Carefully and tightly reseal opened containers and use as quickly as possible.
- ▶ Please refer to the notes in the Product Data Sheets for codex thin-bed mortars used.
- ▶ The addition of POLYACRYL can lead to slight changes in the application properties of the respective thin-bed mortar.
- ▶ Freshly mixed thin-bed mortar with the additive is not affected by frost.
- ▶ Thin-bed mortars with the additive must be allowed to dry out completely before the proposed use of the surface is commenced.
- ▶ Collect any unused dispersion that has been mixed with water in the empty container and use as soon as is possible.

Protection of the workplace and the environment:

P101 If medical advice is needed, have a product container or label at hand. P102 Keep out of reach of children. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

EUH208 Contains a reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Max. VOC content: 8.69 g/L (20 °C). EU limit value for the product (Cat. A.H): 30 g/L (2010). Contains no solvents. Non-flammable. As a general rule, the use of skin barrier cream and good ventilation of the room are recommended. When hardened, the product has no odor and does not cause any physiological or ecological risks.

For allergy information, call the Poison Control Center 210 7793777 (Greece).

UZIN POLYACRYL

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers, or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste.



17

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Water resisting admixtures

Water reduction	Pass
Compressive strength	Pass
Reaction to fire	NPD
Air content in fresh concrete	Pass
Capillary absorption	Pass