

# Teknofay 500

## Aerated Concrete Adhesive



CE TS EN 998-2

Public Pos. No: 04.478

**Product Description** Cement based, polymer-reinforced, ready-to-use aerated concrete adhesive mortar with increased adhesion strength and high water absorption.

**Areas of Usage**

- Indoor and outdoor,
- In vertical and horizontal applications,
- Houses, shopping malls, hospitals,
- It is used for bonding structural elements such as aerated concrete, bricks.

**Features and Benefits**

- Partially resistant against water, damp and frost.
- Its application is easy.
- It has high adhesion strength.
- It saves time and labor.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The surface must be leveled so that the wall can be covered properly. Weak parts should be removed.

Surface Preparation: Concrete floor should be damp but there should be no water accumulation. It is advised to lightly moisten before the water is drained.

Mixing: 6,5 - 8,5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOFAY 500, which is in a 25 kg bag, is poured into the container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes.

**Application Notes / Restrictions**

- Prepared mortar is spread to the surface with a toothed trowel or trowel with appropriate tooth size. Prepared mortar should be applied on the concrete within 5 minutes. If this time has passed, it must be scraped off. The laid bricks should be made appropriate to yard and template by hammering from top and side.
- The amount of consumption given is theoretical and may vary depending on application temperature, aerated concrete brick, surface and workmanship. We recommend sample application for consumption control.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.
- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be taken under protection of the environment under conditions of +5°C, covered with nylon or heat insulation plates should be prevented to expose the product to freezing.

- It must be absolutely protected at temperatures above +35°C, enclosed with nylon or laid out with thermal insulation plates to prevent the product from being exposed to sudden water loss.
- Do not add foreign matter.

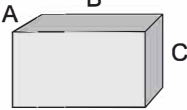
### Storage Conditions

- It should be stored in original unopened package, in cool and dry environment, protected from freezing.

### Technical Data

General Information	
Appearance/Color	Grey or White
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.5 - 8.5 lt water / 25 kg powder
Processing Time (EN 1015-9)	3 hours
Correction Time (EN 1015-9)	> 5 minutes
Performance Information	
Compressive strength / Class (EN 1015-11)	≥ 10 N/mm <sup>2</sup> / M10
Air Content (EN1015-7)	≤ 20%
Bond Strength (TS EN 1015-19 Table C)	≥ 0.3 N/mm <sup>2</sup> (Chart value)
Capillary Water Absorption (EN 1015-18)	≤ 0.4 N/mm <sup>2</sup> min <sup>0,5</sup>
Bry Bulk Density (TS EN 1015-10)	1410 ± 100 kg/m <sup>3</sup>
Water Vapor Transmission (TS EN 1015-19)	15/20 (TS EN 1745 Chart value A.12)
Fire Reaction Class (TS EN 13501-1)	A1

### Consumption Table

	A	B	C	Consumption kg / m <sup>2</sup>
	20	50	20	5-7
	30	50	15	3-5
	30	50	20	4-6

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.