

# Polyap<sup>®</sup> S

Plaster Material for Heat Insulation Sheets

## Material Description

**Polyap<sup>®</sup> S** is a polymer modified and fiber reinforced, cement based ready to use plaster material used in plastering of polystyrene heat insulation sheets.

Complies with the EN 998-1

## Areas of Application

- As plaster for heat insulation sheets in coating works.
- In plastering of reinforced concrete surfaces before painting.

## Characteristics and Benefits

- Enables perfect adhesion.
- Fiber reinforcement minimizes superficial cracks.
- Easy to prepare and apply.
- Long process time.

- Paint can be applied directly on it.
- Resistant to freezing-thawing cycle.

## Processing Method

### (A) Preparation of Substrate

To apply **Polyap<sup>®</sup> S** sheets have to be strongly adhered on the surface and be plugged. Sheets must not be bulged by wind load.

### (B) Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **Polyap<sup>®</sup> S** is slowly added to the water and mixed with a 400-600 RPM mixer for 3-5 minutes until a homogenous and unumpy mixture is obtained. After resting it for approximately 3-5 minutes and mixing again for 30 seconds, the material is ready to use.

Technical Properties		
Structure of the Material	Mineral Sealants, Synthetic Additives and Special Cement	
Color	Grey	
Compressive Strength (EN 1015-11)	≥6,00 N/mm <sup>2</sup> (28 days)	
Adhesion Strength to Polystyrene Plate	~0,20 N/mm <sup>2</sup> (28 days)	WK
Application Thickness	Min. 3 mm Max. 5 mm	
Application Ground Temperature	+5 <sup>o</sup> C +25 <sup>o</sup> C	
Service Teemperature	-20 <sup>o</sup> C +80 <sup>o</sup> C	
Maturity Period	3-5 minutes	
Usage Period	1 hours	
Water Absorption (EN 1015-18)	W1 (C ≤ 0,40 kg/ m <sup>2</sup> .min <sup>0,5</sup> )	
Flexural Strength	Min. 2 N/mm <sup>2</sup>	

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures lengthen the time.

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## Mixing Ratio

Polyap <sup>®</sup> S	Amount of Mixture Water	Density of Mixture
For 1 kg powder	~0,23 liter	~1,86 kg/liter
For 20 kg bag	~4,60 liter	

## (C) Processing

**Polyap<sup>®</sup> S** is applied as single layer on heat insulation sheets adhered by **Polyap<sup>®</sup> Y**, and wall plugged. Then, plaster net (fiber- mesh) is set in the first layer. Then second layer of **Polyap<sup>®</sup> S** plaster is applied. After **Polyap<sup>®</sup> S** is set, flexible exterior coating is applied in desired color.

## Consumption

For 1 mm thickness 1.51 kg/m<sup>2</sup> powder product.

## Point to Consider

- If environmental temperature is below +5°C or over +30°C in Polyap<sup>®</sup> S application, then suitable temperatures must be waited for. Also Polyap<sup>®</sup> S application should not be made in very hot, rainy or windy weathers.
- Under no circumstances, water and new material must be added to drying in **Polyap<sup>®</sup> S** mixture.
- In outer surface applications, the surface has to be protected from sun, wind, frost or rain during the first 24 hours.

## Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **Polyap<sup>®</sup> S** is hardened, it can only be removed from the surface mechanically.

## Packaging

**Polyap<sup>®</sup> S** is available in 20 kg polyethylene reinforced kraft bag.

## Shelf Life

12 months if stored according to manufacturer's instructions in unopened container. Opened packages have to be stored by tightly sealing the bag, and must be used in one week.

## Storage

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

## Health and Safety

During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

## Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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## Contact

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DOP NO 2601002	
Polyap® S	
TS EN 998-1 Dış kullanımlar için genel amaçlı kaba sıva harcı (GP)	
Kuru Yığın Yoğunluğu Dry bulk density	1220-1620 kg/m <sup>3</sup>
Basınç Dayanımı Compressive Strength	CS IV
Kopma Dayanımı Adhesion	0,5-1,5 N/mm <sup>2</sup> (FP=B)
Kapiler Su Emme Capillary water absorption	W1
Su Buharı Aktarım Hızı Water vapour permeability coefficient	µ=5/20
Isıl Geçirgenlik Thermal conductivity mean (λ10,dry mat) values	(λ10,dry mat) 0,49W/(m.K)
Yangına karşı tepki Reaction to fire	A1