

Polyap[®] Y

Adhesive for Heat Insulation Sheets

Material Description

Polyap[®] Y, is a polymer modified cement based ready to use adhesive used in adhesion of polystyrene heat insulation sheets.

Complies with the TS 13566

Areas of Application

As adhesive for heat insulation sheets in coating works.

Characteristics and Benefits

- Enables perfect adhesion.
- Easy to prepare and apply.
- Long process time.
- Resistant to freezing - thawing cycle.


Processing Method

(A) Preparation of Substrate

Application surface has to be strong, dry, bearing, dustless, clean, and also in balance. Surface must be cleaned off all kinds of oil, grease, rust, and paraffin traces that can weaken adherence and no loose particles must be present. Disordered surface with 5 to 20 mm depth must be repaired with **MBT Tech** repair mortars two days before the application. If the application surface is over +30°C, then it must be moisturized.

(B) Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **Polyap[®] Y** 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	
Tensile Adhesion Strength(TS-EN 1348) from Concrete(TS-EN 1015-12) from Polystyrene(TS-EN 13494)	$\geq 0,50 \text{ N/mm}^2$ (28 days) $\geq 0,08 \text{ N/mm}^2$ (28 days)	
Application Thickness	Min. 3 mm Max. 8 mm	
Application Ground Temperature	+5°C +25°C	
Service Temperature	-20°C +80°C	
Maturity Period	3-5 minutes	
Usage Period	1 hours	
Water Absorption (EN 12808-5)	Max. 5 gr	
Flexural Strength	Min. 2 N/mm ²	
Compressive Strength	Min. 6 N/mm ²	

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 [®] Y	Amount of Mixture Water	Density of Mixture
For 1 kg powder	~0,25 liter	~1,63 kg/liter
For 25 kg bag	~6,25 liter	

(C) Processing

Adhesive is applied on sides of the heat insulation sheets as a strip, and as a point on middle parts of the sheets with a mortar trowel. When heat insulation sheets are being adhered, the sheets are pressed and fixed to their places until desired level and equity is obtained. Depending on environmental temperature, when **Polyap[®] Y** is set enough, sheets are fixed to the surface mechanically by a suitable wall plug. During the placement of sheets to their places, drying and forming a film layer of adhesive on the surface of sheets must be prevented. In places where 100% adhesion is required, **Polyap[®] Y** may be applied by a serrated trowel.

Consumption

For 1 mm thickness 1.30 kg/m² powder product.

Point to Consider

- After heat insulations sheets are adhered on wall by **Polyap[®] Y**, they must be fixed mechanically by suitable wall plugs.
- If environmental temperature is below +5°C or over +30°C in **Polyap[®] Y** application, then suitable temperatures must be waited for. Also **Polyap[®] Y** application should not be made in very hot, rainy or windy weathers.
- In outer surface applications, the surface has to be protected from sun, wind, frost or rain during the first 24 hours.
- Under no circumstances, water and new material must be added to drying in **Polyap[®] Y** mixture.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **Polyap[®] Y** is hardened, it can only be removed from the surface mechanically.

Packaging

Polyap[®] Y is available in 25 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.

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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.

Contact

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