



The Chemical Company

POLYAP® Y

Masterseal® F 1050

Adhesive For Heat Insulation Sheets

Description of Product

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

Fields of Application

- As adhesive for heat insulation sheets in coating works.

Advantages

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

Application Procedure

Surface Preparation

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 **Yapkret®** repair mortars two days before the application. If the application surface is over +25°C, then it must be moisturized.

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.

Mixing Ratios

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

Technical Data

Structure of the Material	Mineral sealants, synthetic additives, and special cement.	
Color	Gray	WK
Tensile Adhesion Strength (TSEN 1348)	≥ 0.50 N/mm ² (28 days) ~ 0.20 N/mm ² (28 days)	
From Concrete		
From Polystyrene		
Application Thickness	Min. 3 mm Max. 8 mm	
Application Ground Temperature	+5°C +30°C	
Service Temperature	-20°C +80°C	
Maturity Period	3 - 5 minutes	
Usage Period	1 hour	

Obtained in +23°C, 50% relative humidity conditions. Higher temperatures decrease the time, lower temperatures increase the time.



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Application

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.

Coverage

For 1 mm thickness 1.30 kg/m² powder product.

Watchpoints

- 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 +25°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.

Equipment Cleaning

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

25 kg polyethylene reinforced kraft bags.

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.

Shelf Life

12 months after the production date under appropriate storing conditions. Opened packages have to be stored by tightly sealing the bag, and must be used in one week.

Health and Safety Precautions

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

Disclaimer

This information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, BASF Yapı Kimyasalları San. A.S. is only responsible from the quality of the product. BASF Yapı Kimyasalları San. A.S. cannot be hold responsible from the results caused by applications of the product not in accordance with the written suggestions of how and where to use the product and/or faulty applications. This technical document is valid until a new one is printed and abates the previous editions. 01/2008.