



The Chemical Company

POLYAP® S

Masterseal® F 1055

Plaster Material For Heat Insulation Sheets

Description of Product

POLYAP® S is a polymer modified and fiber reinforced, cement based ready to use plaster material used in plastering of polystyrene heat insulation sheets.

Fields of Application

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

Advantages

- 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.

Technical Data

Structure of the Material	Mineral sealants, synthetic additives, and special cement.	
Color	Gray	WK
Pressure Strength (TS EN 196)	≥ 5.00 N/mm ² (28 days)	
Flexural Strength (TS EN 196)	≥ 1.00 N/mm ² (28 days)	
Adhesion Strength to Polystyrene Plate	~ 0.20 N/mm ² (28 days)	
Adhesion Strength to Concrete (EN 1542)	≥ 1.00 N/mm ² (28 days)	
Application Thickness	Min. 3 mm Max. 5 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.

Application Procedure

Surface Preparation

To apply **POLYAP® S**, sheets have to be strongly adhered on the surface and be plugged. Sheets must not be bulged by wind load.

Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **POLYAP® 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.

POLYAP® S	For 1 kg powder	For 20 kg bag
Amount of Mixture Water	~0,23 litre	~4,60 litre
Density of Mixture	~1,86 kg/litre	



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Application

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

Coverage

For 1 mm thickness 1.51 kg/m² powder product.

Watchpoints

- If environmental temperature is below +5°C or over +30°C in **POLYAP® S** application, then suitable temperatures must be waited for. Also **POLYAP® 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® S** mixture.
- In outer surface applications, the surface has to be protected from sun, wind, frost or rain during the first 24 hours.

Equipment Cleaning

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

Packaging

20 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.