



# firmset®

## plaster

Technical Data Sheet

**firmset®** is a uniform mix of mineral powders, vegetal and mineral oils, drying and coloring agents. It has soft putty consistency, moldable and manageable with hands, with moderate stickiness.

### Technical Information

PROPERTIES	VALUE	TEST METHOD
Chemical base	Minerals and Oils	
Aspect	Putty	
UV Resistance	Good	ASTM-G-154-16
Application temperature	41 °F to 95 °F	
Working temperature	23 °F to 140 °F	
Density	1.97-2.02 g/ml	ASTM-D792-20
Runoff	0.0 mm	ASTM 2202-00(19)
Penetration	180-230 (1/5 mm)	ASTM-D5-20

Information obtained from laboratory tests.

### Uses

**firmset®** has been mainly developed for:

- The filling of the joints formed when placing glasses inside window frames either wood, structural iron or tubular sheet.
- Ideal to place the WC on the installation.

### Advantages

- Is excellent to place glass on wood, or structural or tubular ironwork.
- Paintable.
- The **firmset®** after molded and mixed with hands, does not result sticky. It does not drip or return.
- When smooth the surface with a spatula, does not crack or break down.
- Offer excellent adhesion to dry and dust free surfaces.
- After applying it and after some hours, the drying agents act forming a thin stick-free film, which prevent that the dust adhere and create a bad aspect.

### Application

The surfaces to be sealed shall be firm, dry, clean free of dust, grease and oil. Smooth surfaces (like glass, metal, etc.) it shall be done a cleaning with two cleaning clothes, consisting in passing a (lint free) cleaning clothe impregnated with isopropyl alcohol, and removing immediately all the impurities with a clean and dry cleaning clothe. Depending on the type of molding or window frame, the typical application forms are:

- Glass fixing in doors and windows:  
If the molding is of wood, place the glass directly on it, fastened by nails and finally apply I **firmset®** with a minimum section of 6x6 mm on external face until forming a triangular bevel. If the molding is of structural iron forming and angle or "T", the glass is placed with wire or sheet staple. Apply **firmset®** with a minimum section of 6x6 on the external face forming a triangular bevel.

When the molding if of tubular sheet, and has a glass-fasten strip screw able with screws, apply in the same way a layer of 4 mm thickness of **firmset®** that will serve as seat or bed, place the glass and fasten the stripes. Then the space between the stripes and the glass is filled with **firmset®** forming a triangular bevel on the stripe, sealing both sides.

plaster  
MAS-01

04-2023 (supersedes all the prior)

**firmset®**





## Recommendations

- Perform tests under actual application conditions to guarantee its proper operation.
- Mix it with hands until achieve the desired consistency.
- Clean the frame eliminating material residues, rust and water.
- If needed place silicone wedges.
- Fasten the glass with enough number of nails, staples or stripes screw able for glasses.
- Press **firmset®** firmly to get the best adhesion to the frame and to the glass.
- Pass again on the with a hollow spatula slightly wet in solvent, preventing sawtooth. Allow the initial drying of the **firmset®** for three days before painting.
- Prevent the movement of mobile doors and windows during that time.
- After 3 days paint the **firmset®** for best durability.

## Maintenance

- When the product suffers any damage, replace the section cleaning the area before applying again **firmset®**.

## Precautions

- Keep out of the reach of children.
- If ingested, seek medical advice.

## Limitations

- In applications with strong vibrations or movements.
- It shall not be wrapped in porous and absorbent paper because this will impregnate of the oils, that is why is recommendable in sales over the counter the use of plastic bag.

## Presentation

### Sizes and Colors

- Gray



## Performance\*

Joint in mm	Yield m
6 x 6	26.45
7 x 7	19.43
8 x 8	14.80
9 x 9	11.75
10 x 10	9.25
15 x 15	4.23
20 x 20	2.38

\* Approximate yield per kilo in triangular section.

## Shelf Life

6 months in cold and dry warehouse in its original packaging at temperatures of 21 °C (70 °F) and 50% relative humidity.

## Technical Support

Productos Pennsylvania's Technical Support is at your service, assisting you with:

Guidance in how to apply this or any of our products.

Blueprint reviews.

Joint dimension calculus.

Compatibility and adhesion testing of our sealants with different materials.

### NOTE:

Productos Pennsylvania S.A de C.V. provides technical assistance when required. Please contact our Technical Department regarding use and application of this product. It is the user's responsibility to test the product and its uses before application.

Productos Pennsylvania, S.A. de C.V.

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the caulking expert

