



Document: 8994.12
 Collection: 106: Product Data Sheets (PDS)
 Modified: 22/01/2020 15:55
 Created: 30/03/2016 17:41

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Product Data Sheet PDS023: Bondplast

1 Product Description

Armourcoat Bondplast is specially formulated gypsum glue that is used for bonding either Armourcoat Sculptural panels or Armourcoat Acoustic boards to the substrate. Bondplast has been formulated to have almost no shrinkage or expansion on setting/curing and achieves a very good level of adhesion to the Armourcoat Sculptural panels, Armourcoat Acoustic Boards and suitable substrates.

2 Properties

- Resin-modified natural mineral material
- Contains no VOCs
- Powder product unaffected by frost
- Provides good bond for Armourcoat Sculptural panels and Armourcoat Acoustic boards
- Can be used to level minor surface irregularities (up to 2-3mm maximum)
- Completely non-combustible as supplied and when applied. Calorific value to EN ISO 1716 -0.274 mj/kg

3 Health and Safety

Armourcoat Bondplast is a powdered product and a dust mask should always be worn when mixing or handling the product. Wear protective clothing, gloves and eye protection, and if contact occurs wash immediately with soap and water. Bondplast is a non-combustible mineral product and does not give off any VOCs.

4 Suitable Substrates

For Armourcoat Sculptural we recommend that the substrate is constructed from one layer of 12mm plywood followed by a layer of 12.5mm foil backed plasterboard. The reason for using foil backed plasterboard is to ensure that the moisture for the bonding adhesive does not permeate into the plywood and cause it to expand or move. Cement board is a suitable alternative.

Highly absorbent surfaces such as GRG, fresh skimmed gypsum plaster and jointing compound should be primed and allowed to fully dry prior to the application of the Bondplast.

The Armourcoat Acoustic System can be applied to a wide range of substrates which should be firm and true and will not move or crack. The most common substrate for the system is plasterboard suspended on a metal frame system. All joints should be taped with a reinforcing mesh and the joints filled flush. The Armourcoat Acoustic Plaster System can also be applied directly to a concrete or blockwork substrate.

Bondplast can be applied to previously painted surfaces as long as the paint is well adhered and not peeling or flaking off.

5 Mixing Instructions

Always wear a dust mask or respirator when mixing Armourcoat Bondplast. You will require approximately 1.5-1.7 kg of Sculptural Bondplast to adhere 1 panel of Armourcoat Sculptural or 0.6-0.7 kg to adhere 1 Armourcoat Acoustic board.

A 20kg (44lbs) bag of Bondplast will be sufficient to adhere 12-13 m² (130-140 sqft) of Armourcoat Sculptural panels to a flat substrate or 17-20 m² (180-210 sqft) of Armourcoat Acoustic panels. Uneven substrates will require more material.

The mixing ratio of water to plaster is 60:100. You will require about 1.8 litres (60 US fl oz) of water for 3kg (6.6lbs) of Bondplast, or around 12.0 litres (3.17 US gal) for a full 20kg (44lbs) bag.

Once mixed with the water Bondplast will be usable for up to 60 minutes. It will reach initial set at about 80-90 minutes and will set

hard in about 120 minutes.

Pour the required amount of water into a clean bucket and then pour the Bondplast powder into the liquid. Mix with a mechanical plaster mixer fitted with a helical mixing paddle until you have a smooth, lump free consistency. Leave to stand for a few minutes and remix for a further 20-30 seconds before use. When mixed correctly, the material will not slump but still spread easily.

6 Application Instructions

6.1 Armourcoat Sculptural

- Do not mix the Armourcoat Bondplast until you have laid out the wall and have a number of Armourcoat Sculptural panels completely ready to fix into place.
- Apply Bondplast to the substrate using a notched trowel ensuring that there is adequate material behind all panel joints and sufficient Bondplast to cover at least 60-70% of the wall surface behind the panel. We normally recommend a 5mm (1/4X1/4X1/4) square notched trowel for most situations but an 8 or 10mm (3/8X3/8X3/8) square notched trowel may be necessary if the walls are not flat and true.
- The Bondplast must also be applied along all the edges of the panels that are to be bonded together. Apply some Bondplast to the edge of the panel that is on the wall and place two 1mm spacers into the joint. Push the second panel tight up against the first panel so that the excess glue is squeezed out of the joint, and the gap between the panels is no wider than the spacer holding them apart.
- Insert the screws for this panel and screw them in until the screw heads just pressing on the panel. The final adjustment of the joint between two panels is only done when both panels are in position and both sides can be carefully adjusted at the same time.
- This fine adjustment must be done with a hand held screwdriver as this will give the most control. Scrape all excess Bondplast from the surface before it sets hard.

6.2 Armourcoat Acoustic

- Do not mix the Armourcoat Bondplast until you are completely ready to apply the Acoustic panels to the ceiling or wall surface.
- Apply Bondplast to the back of the Acoustic boards using a notched trowel ensuring that there is adequate material on the board. We normally recommend a 5mm (1/4X1/4X1/4) square notched trowel for most situations.
- Adhere panels to the substrate in an offset block pattern making sure each panel is tightly butted up to the adjoining panels.
- Press the panel firmly onto the ceiling with a trowel or plastic float over the surface of the entire panel.

7 Coverage Rates

Bondplast is supplied in 20kg paper sacks.

Coverage rates: ~ 1.5-1.7 kg/m² for Armourcoat Sculptural and ~ 1.1-1.2 kg/m² for Armourcoat Acoustic

8 Storage

Store in good dry conditions between 5 - 25°C. The shelf life of Armourcoat Bondplast in unopened original packaging, under correct storage conditions is 12 months from date of manufacture.

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