

Product Data Sheet 23

Sculptural Bondplast

1 Product Description

Sculptural Bondplast is specially formulated gypsum glue that is used for bonding Armourcoat Sculptural® panels to a variety of substrates. Sculptural 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 and suitable substrates.

An update to the formulation released in 2013 removed the requirement for a separate resin addition as part of the mixing process.

2 Properties

- Resin-modified natural mineral material
- Contains no VOCs
- Powder product unaffected by frost
- Provides good bond for Armourcoat Sculptural® panels
- Can be used to level minor surface irregularities (up to 2-3mm maximum)
- Completely non-combustible as supplied and when applied
- NEW FORMULATION MIXES WITH WATER ONLY
- No liquid resin addition required

3 Health and Safety

Sculptural 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.

Sculptural Bondplast is a non-combustible mineral product and does not give off any VOCs.

4 Suitable Substrates

We recommend that the substrate is constructed from one layer of 12mm (½") plywood followed by a layer of 12.5mm (½") 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 Sculptural Bondplast.

5 Mixing Instructions

Always wear a dust mask or respirator when mixing Armourcoat Bondplast.

You will require approximately 1.8 – 2kg of Sculptural Bondplast to adhere 1 panel of Armourcoat Sculptural®. 25kg of Sculptural Bondplast will be sufficient to adhere 12 – 14 m² of Armourcoat Sculptural® panels to a flat substrate. Uneven substrates will require more material.

The mixing ratio of water to plaster is 40:100.

You will require about 1.2 litres of water for 3kg of Sculptural Bondplast, or around 10.0 litres for a full 25kg bag.

Once mixed with the gauging solution Sculptural 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 Sculptural Bondplast powder into the liquid.

Mix with a mechanical plaster mixer 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

Do not mix the Sculptural Bondplast until you have laid out the wall and have a number of Armourcoat Sculptural® panels completely ready to fix into place.

Apply Sculptural Bondplast to the substrate using a notched trowel ensuring that there is adequate material behind all panel joints and sufficient Sculptural Bondplast to cover at least 60 – 70% of the wall surface behind the panel.

We normally recommend a 5mm notched trowel for most situations but an 8 or 10mm notched trowel may be necessary if the walls are not flat and true.

The Sculptural Bondplast must also be applied along all the edges of the panels that are to be bonded together.

Apply some Sculptural Bondplast to the edge of the panel that is on the wall and place two 1mm spacers into the joint.



PDS23

Push the second panel tight up against the first panel so that the excess glue is squeezed out of the join, 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 join 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 Sculptural Bondplast from the surface before it sets hard.

7 Coverage Rates

Sculptural Bondplast is supplied in 25kg paper sacks.
Coverage rates: ~ 1.8 – 2 kg/m².

8 Storage

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

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