A1

TECHNICAL DATA SHEET

DESCRIPTION

A1, the abbreviation for Acrylic One, is a two-component material consisting of a mineral powder and a water-based acrylic resin. These bind in such a way that a strong material is created. A1 has many unique properties. These contribute to its strength, durability, weight to strength ratio, non-toxic, easy to manufacture and its ability to comply with many of the necessary test requirements of the construction industry, specifically those in regard to performance to fire and performance under impact.

A1's potential use is wide-ranging and could effectively replace much GRG, GRC and GRP in many of the situations where those materials are now used, both in- and outdoor. In comparison with GRC, A1 offers much greater versatility, as a panellised cladding system in that the manufacturing tolerance can be much tighter. A1 possesses a high resistance to ultraviolet degradation. It can, therefore, be used in the situation where other materials would suffer.

A1's main application areas are: cladding, façade, art, sculpture, theming and decoration.

A1 consist of a formulated liquid and powder.

FEATURES

- Very high fire resistance properties
- UV stabilised
- Rainwater resistant (if sealed)
- Good mechanical properties
- Low heat generation (max 45 °C)
- Shrink free
- Solvent-free
- Environmentally friendly
- Low peak exotherm
- Packaging:
  - set 7,5 kg (2,5 kg A1 Liquid, 5 kg A1 Powder),
  - set 15 kg (5 kg A1 Liquid, 10 kg A1 Powder),
  - set 60 kg (20 kg A1 Liquid, 40 kg A1 Powder),
  - set 180 kg (60 kg A1 Liquid, 120 kg A1 Powder).

APPLICATION INSTRUCTIONS

- The mixing ratio of the liquid/powder is **1:2** by weight and can be mixed with our A1 mixing blades.
- Working time is between 20-25 minutes, which can be extended by adding A1 Retarder.
- Pigments can be added, maximum 2% on total weight of liquid and powder.
- Small entrapped air bubbles can be filled or repaired afterwards.

ACTIVE COMPOSITE TECHNOLOGIES

Nijverheidsweg 15a
3251 LP Stellendam (NL)
The Netherlands

T: +31 (0) 187 663006
E: info@activecomposite.com
W: www.activecomposite.com