Acrystal Optima

Highlight

- A white composite material with two components :
  - an aqueous acrylic liquid resin "Acrystal Optima"
  - a powder “Basic Crystal” of natural mineral crystal structures
- Can be used internally
- Can be applied directly to foams such as polystyrene
- Can be used for casting, rotomoulding or laminating
- High surface hardness
- Good price

Advantages

- During application
  - non toxic
  - low odour
  - easy to work with
  - aqueous, solvent free
  - no mould cleaning
  - tools cleaned with water
  - low exotherm (< 45°C)
- Aspect
  - infinite range of finishes
  - high quality finish
  - homogenous colouration
- High performances
  - low expansion at setting (< 0,1%)
  - fire resistance
  - durable
- Economical
  - less working time
  - increases life-time of silicone moulds
  - no solvents for cleaning
  - few consumables

Complementary products

- Pigments 1 kg : 4111 à 4115
- Glass fibres 200-4D : 6260 / 6280
- Acrystal Finition 5 kg : 3310
- Retarder 1 kg : 3110
- Thixotrope 1 kg : 3210
- Aluminium whisk : 5110

For more details about this products :
www.acrystal.com > products

Acrystal Matériaux composites

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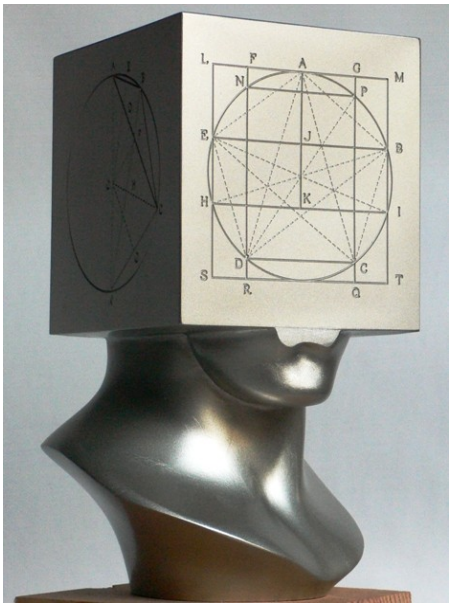
Applications

- Replicas
- Scale models
- Art & artwork
- Models
- Prototypes



Miniature (19 cm) "La Tête Carrée" Sacha Sosno - France-Africa Summit in Nice 2010- Atelier Antoine Graff - Nice

Product reference

- Kit Acrystal Optima 80 kg : 1410

Processing

Mixing ratio by weight:
- 1 kg Acrystal Optima liquids
- 3 kg Basic Crystal powders

- Blend Basic Crystal powder in Acrystal Optima liquids
- According to the application :
  - extract air by usual techniques and cast into silicone rubber moulds
  - apply with a wiper or brush on a foam support such as polystyrene

For more details about processing :
www.acrystal.com > products > users guide

House scale model - Marc Toillié - Seebach - France

Ichthyosaurus casting - Amaltheus - Haubourdin - France

Technical data (indicative figures)

Fresh wet density (unfilled)	1860 kg / m^3
Air dry density (unfilled)	1750 kg / m^3
Pot life	8 – 10 mn
Final set (demould)	20 – 100 mn
Compressive strength	25 – 30 MPa oven dry
Impact strength (Charpy)	1 kJ / m^2
Maximal bending strength	15 MPa
Expansion at setting	< 0.1 %
Shore D hardness	84 - 86
U.V. resistance	excellent

All information contained in this data sheet is given in good faith. However, it remains all times the responsibility of the customer to ensure that the materials are suitable for the particular purpose intended.