



Acrystal Aqua

Highlight

- ▶ A white composite material with two components:
 - an aqueous acrylic liquid resin "Acrystal Aqua"
 - an "Acrystal Aqua" powder made from white cement
- ▶ Can be used internally
- ▶ Can be used externally
- ▶ Material designed for the production of partially or fully submerged elements
- ▶ Material with very high surface hardness
- ▶ Can be applied directly to foams such as polystyrene
- ▶ Can be used for casting or laminating

Advantages

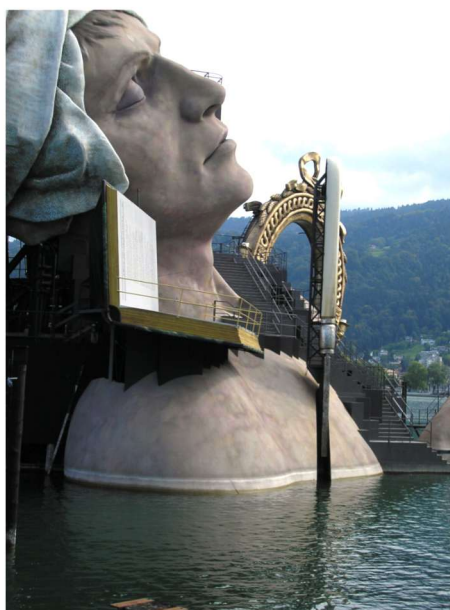
- ▶ **During application**
 - non toxic
 - low odour
 - easy to work with
 - aqueous, solvent free
 - no mould cleaning
 - tools cleaned with water
 - low exotherm (< 45°C)
- ▶ **Aspect**
 - infinite range of finishes
 - high quality finish
- ▶ **High performances**
 - low shrinkage at setting (< 0,1%)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

Product references

- ▶ Kit Acrystal Aqua 24 kg : 1224

Applications

- ▶ Architecture
- ▶ Interior design
- ▶ Replicas
- ▶ Scale models
- ▶ Scenography
- ▶ Museography
- ▶ Art & artwork
- ▶ Fountains
- ▶ Climbing walls
- ▶ Aquarium rocks
- ▶ Urban furniture
- ▶ Work surfaces



Festival of Bregenz - Set by André Chénier on Constance Lake - The parts in contact with water are made of Acrystal Aqua - Austria

Processing

- ▶ Mixing ratio by weight :
 - ▷ 1 part Acrystal Aqua liquids
 - ▷ 7 parts Acrystal Aqua powders
- ▶ Mix Acrystal Aqua powders alone than incorporate the liquid
- ▶ Mix until the product becomes fluid (the mix is very thick at the beginning but becomes fluid suddenly after a while) and homogeneous
- ▶ According to the application :
 - extract air by usual techniques and cast into silicone rubber moulds
 - laminate with a wiper or brush in a mould or apply on foams such as polystyrene
- ▶ Demould after 24 hours
- ▶ Maintain the casting in a humid atmosphere at least during 72 hours

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



Tactile model of the Haut-Koenigsbourg castle - Intended for the visually impaired, the model, placed at the entrance to the site, reproduces the volume of the castle and includes Braille captions - Jean-François Frering - Strasbourg

Complementary products

- ▶ Pigments 1 kg : 4111 à 4114
- ▶ Thixotrope Aqua 800 g : 3205
- ▶ Aluminium wisk : 5110

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

Technical data (indicative figures)

Fresh wet density (unfilled)	2340 kg / m ³
Air dry density (unfilled)	2250 - 2300 kg / m ³
Pot life	40 - 60 mn
Final set (demould)	24 heures
Dureté maximale	28 jours
Compressive strength 28 days	75 - 80 MPa
Compressive strength immersed	75 - 80 MPa
Maximal bending strength	10 MPa
Shrinkage at setting	< 0.07 %
U.V. resistance	excellente

Acrystal®

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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.

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