

# Acrystal Aqua

## Highlight

- A composite material of "mortar" type of very high performance with two components :
  - an aqueous acrylic liquid resin
  - a white cement based powder
- Material with very high surface hardness
- Can be used externally
- Use for partially or totally submerged elements
- Can be applied directly to foams such as polystyrene
- 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 expansion at setting (< 0,1%)
  - moisture resistance
  - fire resistance
  - durable
- Economical
  - less working time
  - increases life-time of silicone moulds
  - no solvents for cleaning
  - few consumables

## Complementary products

- Thixotrope Aqua 0,8 kg: 3205
- Mélangeur aluminium: 5110

For more details about this products :  
[www.acrystal.com](http://www.acrystal.com) > products



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## Applications

- Architecture
- Interior Architecture
- Reproductions
- Models
- Scenography
- Museography
- Art & artwork
- Fountains
- Bathroom furniture
- Aquarium rocks
- Climbing walls
- Urban furniture
- Work surfaces



*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 Freiring - Strasbourg*

## Product references

- Kit Acrystal Aqua 24 kg: 1224

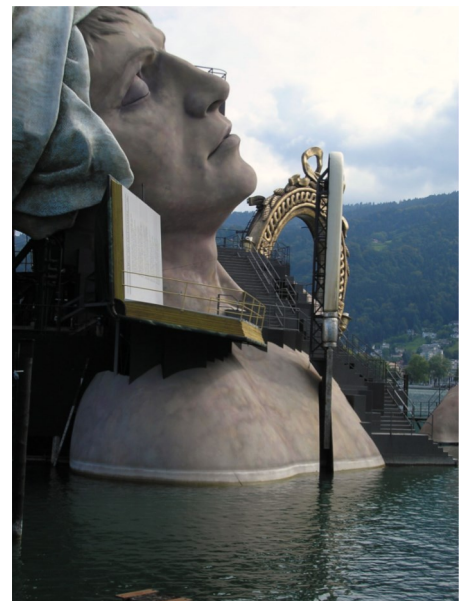
## Processing

Mixing ratio by weight:

- 1 kg Acrystal Aqua liquid
- 7 kg Acrystal Aqua powder

- 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](http://www.acrystal.com) > products > users guide



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

## Technical data (indicative figures)

Fresh wet density (unfilled)	2340 kg / m <sup>3</sup>
Air dry density (unfilled)	2250 - 2300 kg / m <sup>3</sup>
Pot life	40 - 60 mn
Final set (demould)	24 hours
Maximum hardness	28 days
Compressive strength (28 day)	75 - 80 MPa
Compressive strength immersed	75 - 80 MPa
Maximal bending strength	10 MPa
Shrinkage at setting	< 0.07 %
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.

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