

# Crystacal R

## Product Description

Crystacal R is a high strength hemihydrate plaster ( $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ ) produced from high purity gypsum mineral. The plaster produces very hard casts; will faithfully reproduce fine detail and is easily decorated.

## Applications

Used in the manufacture of :

- Glass reinforced gypsum structures.
- General casting of decorative plasterwork.
- Used for the production of giftware models.

## Technical Data

The technical data outlined represents typical figures only. For further details, please contact Formula directly.

Plaster to water ratio,  
by weight 2.86:1, 100/35  
2.86 kg/litre, 3lb 9oz/pint

Initial Vicat setting time  
@ pwr of 2.86:1 15 minutes

Minimum compressive  
strength, dry 44.8 MN/m<sup>2</sup>  
@ pwr of 2.86:1

Minimum compressive  
strength 2 hours after setting 20.0 MN/m<sup>2</sup>  
@ pwr of 2.86:1

Maximum linear  
expansion, 2 hours after setting 0.55%  
@ pwr of 2.86:1

Colour – Colorimeter measurement

L*	92.5
a*	0.5
b*	3.5

Dry set density Approx 1670 kg/m<sup>3</sup>  
@ pwr of 2.86:1

Yield @ pwr of 2.5kg plaster Approx 0.075m<sup>3</sup>  
to 1 litre water per 100kgs plaster

Unless otherwise stated, Formula's standard test methods apply. To obtain a copy of the test methods used, please contact Formula directly.

The plaster to water ratios quoted are those used in Formula's standard test methods and are not necessarily those used in practice. The precise consistency to use will need to be adjusted to suit the individual application. Changes to plaster to water ratio will influence product performance particularly setting time and strength. For further information, please refer to Formula's leaflet 'Casting Plasters'.

Plaster based products are not recommended for conditions where they are likely to be located externally or in any way subjected to weathering or excessive dampness.

When stored under dry conditions, this product will have a shelf life of three months from the date of manufacture that is displayed on each sack.

Absorption of moisture can result in changes to physical properties including a reduction in the set strength of plasters and also a lengthening of setting time. To help protect the product during use, open or part used bags should be carefully folded and closed.

Each bag is date stamped and stocks should be rotated so that the oldest material is used first.

For further technical information or advice on any matter relating to a BPB Formula product, please contact Formula directly.

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## Supply Details

Unless otherwise stated, BPB Formula industrial plasters and gypsum minerals are available in 25Kg, 35Kg, 40Kg or 50Kg paper sacks depending upon manufacturing location. Other pack options such as IBC (bulk bags) and bulk product in road tanker may also be available. The company contracts solely upon its conditions of sale, copies of which are available on request. Advice as to merchant outlets for industrial products may be obtained by contacting the sales offices listed.

## Health and Safety

Health and Safety information sheets are available for all BPB Formula Industrial Plasters and Gypsum Minerals and can be obtained by contacting the sales offices listed.

*General health and safety information is printed on each sack.*

No liability is accepted for injury to any person or loss or damage to property by improper use of the product. All information has been provided in good faith but the information may be subject to change.

Any instruction manuals or other literature provided with the product or in respect of the product at any time thereafter are correct at the time of supply but may be updated at a later date. Should the user of the product at any time be unsure about the contents or currency of any such information manuals or other literature then contact should be made with BPB Formula.

## Information

For further information including technical service and health & safety enquiries please contact

Address	UK	France	Germany	Spain	Romania
	BPB Formula Newark Works Bowbridge Lane Nottinghamshire NG24 3BZ	BPB Formula 34, avenue Franklin Roosevelt 92282 Suresnes Cedex	BPB Formula GmbH Kutzhütte D-37455 Walkenried	BPB Formula C/Albacete 5° - 6° Planta 28027 Madrid	BPB Formula 22 Decembrie 1989 str. F. N Turda -3350- Jud. CLUJ
<b>Domestic Sales</b>	Tel: +44 (0) 1636 670249 Fax: +44 (0) 1636 670229	Tel: +33 (0) 1 46 25 46 15 Fax: +33 (0) 1 46 25 46 90	Tel: +49 (0) 5525 203-0 Fax: +49 (0) 5525 551	Tel: +34 (9) 1 326 4932 Fax: +34 (9) 1 403 6605	Tel: +40 (0) 64 31 46 16 Fax: +40 (0) 64 31 67 94
<b>Export Sales</b>					
<b>-Europe</b>	Tel: +44 (0) 1636 670213 Fax: +44 (0) 1636 670221	Tel: +33 (0) 1 46 25 46 85 Fax: +33 (0) 1 46 25 46 90	Tel: +49 (0) 5525 203-0 Fax: +49 (0) 5525 551	Tel: +34 (9) 1 326 4932 Fax: +34 (9) 1 403 6605	Tel: +40 (0) 64 31 46 16 Fax: +40 (0) 64 31 67 94
<b>-Outside Europe</b>	Tel: +33 (0) 1 46 25 46 92 Fax: +33 (0) 1 46 25 46 90	Tel: +33 (0) 1 46 25 46 92 Fax: +33 (0) 1 46 25 46 90	Tel: +33 (0) 1 46 25 46 92 Fax: +33 (0) 1 46 25 46 90	Tel: +33 (0) 1 46 25 46 92 Fax: +33 (0) 1 46 25 46 90	Tel: +33 (0) 1 46 25 46 92 Fax: +33 (0) 1 46 25 46 90
<b>Email</b>	formula.marketing@bpb.com	formula@bpb.fr	info@bpbformula.de	formula.marketing@bpb.com	gypsum@mail.dntcj.ro
<b>Technical Service / Health &amp; Safety Details</b>	Tel: +44 (0) 1636 670243 Fax: +44 (0) 1636 670229	Tel: +33 (0) 1 34 50 40 31 Fax: +33 (0) 1 34 50 40 30	Tel: +49 (0) 5525 203 15 Fax: +49 (0) 5525 551	Tel: +34 (9) 1 326 4932 Fax: +34 (9) 1 403 6605	Tel: +40 (0) 64 31 46 16 Fax: +40 (0) 64 31 67 94