

Technical Data Sheet

ACRIGARD

QB

DESCRIPTION

Acrigard is a range of Methylmethacrylate-based (MMA) resin flooring systems, designed to be fast curing, hygienic and long term durable in aggressive working environments. Acrigard QB is a coloured quartz broadcast system comprised of a flexible self-smoothing screed into which coloured quartz is broadcast. Two or more clear MMA sealer coats are then applied to the surface to provide a sealed finish.

KEY BENEFITS

- Extremely fast curing at low temperatures
- Thermal shock resistant
- Highly durable
- Hygienic and seamless
- Abrasion and impact resistant
- Colour stable
- Flexible
- Highly chemical resistant

TECHNICAL DATA

John Lord is an ISO 9001:2000 accredited company and all John Lord products are manufactured strictly to ISO quality standards.

Performance Data

Tensile Strength:	5.8 N /mm ²
Break Elongation:	> 300% (±300%)
E- Modulus:	13 N
Temperature Resistance:	Constant -25°C to 60°C
Flash Steam Cleanable:	No
Water Permeability:	Nil

All figures are measured and expressed as per laboratory conditions. Actual performance may vary from the above values depending on site conditions.

Physical Properties

Complies with BS 8204-6 / FeRFA Type 4

System Make-Up:

Primer (s)	1 x application Acrigard QB Primer
System	1 x application Acrigard QB self-smoothing screed and Acrigard QB broadcast
Sealer Coat (s)	2 x sealer coats of Acrigard Seal
Optional Variations	None

System Details:

Finish:	Textured, coloured finish
Thickness:	2-3 mm
Standard Colours:	Wide range of colours available. Bespoke colours available on request.

Chemical Resistance

Resistant to a wide range of acids, alkalis, oils, greases, salt solutions, fuels and some solvents. For full details visit our website: www.john-lord.co.uk/products/technical-guides.php or consult John Lord Technical Dept.

Curing Time

Floor can go into service after the following minimum cure periods:

Foot Traffic:	1 hour
Full Cure:	2 hours

Shelf Life / Storage

The product should be kept in its original unopened container until use.

The product should be stored in weather tight conditions, at temperatures between 10°C and 25°C, avoiding direct sunlight. Under these conditions this product has a shelf life of up to 12 months.

In-Service Maintenance

Good housekeeping and regular cleaning can considerably extend the service life of a floor, will enhance the floor's appearance and reduce soiling tendencies.

Suitable cleaning methods for this product include:

- Rotary scrubbing machine and /or warm water washing (up to 60°C) with suitable detergent products – see John Lord Cleaning Guide for further details

APPLICATION INFORMATION

John Lord recommend that all products are installed by their own Contracts Department. John Lord Contracts Department provide a professional service with experienced project management supervision and skilled, trained and NVQ /CSCS approved applicators.

Suitable Applications

- Freezer / Cold store/ Chiller Rooms
- Wet / Dry Processing areas inc. Food Processing

- Breweries/ Dairies
- Car Park Systems
- Engineering and Manufacturing facilities
- Warehousing
- Loading Bays
- Chemical industry
- Pharmaceutical production facilities
- Workshops / Machine shops / Garages
- Airports
- Retail Outlets

Substrate Requirements

Acrigard QB can be applied to concrete, metal, wood and tiled substrates. Concrete substrates should be a minimum strength of 35N/ Sq.mm, with a minimum cement content of 320 –350kgs per cubic metre. Substrates should have minimum laitance and be free from dust and contamination. Substrates should be free of any unseen defects such as structural instability or intermediate delamination. Tolerances and levels in concrete substrates should be of the standard required of the seamless resin finish. Substrates should be dry to 75% RH as per BS8204 or by Vaisala thermo hygrometer type HMI 31. Substrates should incorporate an effective D.P.M and be free from rising dampness, moisture and osmosis. Newly laid substrates must be allowed sufficient 'drying out' time prior to overlaying. The drying time required will depend upon ambient temperatures, humidity and substrate thickness. Ceramic or quarry tiled floors must be thoroughly inspected to ensure that all areas are solidly bonded (tile to adhesive & adhesive to substrate). Any defective areas should be excavated and repaired. Acrigard products should NOT be applied to the following substrates: *Asphalt, Unmodified sand cement screeds, PVC tiles or sheet.*

Substrate Preparation

Careful preparation of the substrate is essential. A detailed inspection of the substrate must be undertaken to determine the nature of preparation required eg. mechanical scarifying, diamond grinding, shot blasting, chemical decontamination, hot compressed air treatment. Steel decking should be prepared to S.A 2.5 or similar. For specialist advice on substrate preparation contact John Lord.

Application Technique

Temperature: Air temperatures are acceptable between -25°C and +40°C during the application of this product.

Statement of Responsibility

The technical data and application information within this John Lord Technical Data Sheet is provided as an introduction to the system only and may vary according to on-site or environmental conditions. As the information provided is of a general nature, no guarantee is implied and it is the responsibility of the client or user to discuss in detail with John L. Lord & Son, the suitability of the product for a particular application or requirement beforehand. John L. Lord & Son cannot accept any responsibility of work and the subsequent performance of their systems that are not controlled by their own contracting services.

John L. Lord & Son reserve the right to alter information contained in this document without prior notification, and it is the responsibility of the client or user to obtain the most recent issue.

De-humidifiers must be used where high humidity conditions prevail.

Ventilation: The need for ventilation during application and curing of Acrigard systems is of paramount importance, especially where risk of food taint is possible. Please seek advice from John Lord regarding types of screening and sealing of sensitive areas, forced ventilation and other essential measures.

Priming: The dry, prepared, dust-free substrate should receive a roller-applied coat of Acrigard QB primer. The primer should be allowed to cure for 30-60 minutes before applying Acrigard QB. Substrates which are known to have a high porosity or void content, should receive two coats of Acrigard QB primer, and be allowed to cure fully in between coats.

System: Once the Acrigard QB base screed has been mixed, the material should be immediately applied to the primed substrate and spread to the required thickness using a pin rake or trowel. The material should be allowed to self-smooth before spike rolling the surface in a uniform direction until all the trapped air has been released. The coloured quartz aggregate is then broadcast onto the surface until saturated, and left for approximately 30 – 60 minutes. Immediately remove excess aggregate by sweeping or vacuum, and prepare to apply the sealer coats.

Sealer Coats: Apply a minimum of two Acrigard Seal coats by de-flocked mohair or short pile roller, leaving a minimum of 15 – 20 minutes between each coat.

Joints: All known expansion joints should be followed through the resin floor finish using Epiflex jointing mastic. If concrete movement or cracking takes place after application then reflective cracking of the topping may occur.

Precautions

Appropriate PPE such as gloves, fume respirators, goggles and barrier cream should be worn during mixing and application of this product. Product should not come into contact with the skin or eyes, or be swallowed. Avoid inhalation.

For full health and safety hazard information, please refer to the John Lord Safety Data Sheet (SDS) for each component of this product. COSHH and SDS documents can be obtained from our Bury Office or via our website www.johnlord.co.uk



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