

Technical Data Sheet

ACRIGARD

SL

DESCRIPTION

Acrigard is a range of Methylmethacrylate (MMA) based resin flooring systems, designed to be fast curing, hygienic and long term durable. Acrigard SL is a rich resin self-levelling floor finish, and is ideal for fast turn-around installations where aesthetic considerations are important.

KEY BENEFITS

- Extremely fast curing
- Highly durable
- Hygienic and seamless
- Thermal shock resistant
- Easy to clean
- Abrasion and impact resistant
- Colour stable

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

Flexural Strength:	27 N /mm ²
Compressive Strength:	46 N /mm ²
Tensile Strength:	26 N /mm ²
Start Deformation pressure:	25 N /mm ²
Tensile Strength:	7 N /mm ²
Elongation Break:	0.7 %
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 5

System Make-Up:

Primer (s)	1 x application Acrigard SL Primer
System	1 x application Acrigard SL
Sealer Coat (s)	None
Optional Variations	Optional sealer coat of Acrigard Seal

System Details:

Finish:	Smooth, matt 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

- Engineering and Manufacturing facilities

- Dry Processing/ packing areas
- Warehousing
- Chemical industry
- Pharmaceutical production facilities
- Workshops / Plant Rooms
- Airports
- Retail Outlets

Substrate Requirements

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

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.

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 SL primer. The primer should be allowed to cure for 30-60 minutes before applying Acrigard SL. Substrates which are known to have a high porosity or void content, should receive two coats of Acrigard SL primer, and be allowed to cure fully in between coats.

System: The Acrigard SL should be thoroughly mixed, then poured onto the primed substrate and immediately floated with a pin rake or trowel to the desired thickness. The material should be allowed to self-smooth before spike rolling the surface in a uniform direction as much as required.

Sealer coats: The addition of Acrigard Seal sealer coats are optional and provide an extra protective gloss finish.

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.john-lord.co.uk.

