

STIRLING LLOYD

# BRIDGEMASTER<sup>®</sup>

Combined Waterproofing &amp; Surfacing

## Product Description

BRIDGEMASTER<sup>®</sup> is a fast curing, waterproofing and skid resistant wearing course for the protection of bridge decks, where a long lasting, light weight and durable solution is required. Based on GCP Applied Technologies' unique ESSELAC<sup>®</sup> advanced resin technology and extensive experience in the development of infrastructure waterproofing and trafficked surfaces, BRIDGEMASTER<sup>®</sup> comprises a flexible resin screed with an aggregate overscatter and durable sealer coat.

## Product Uses

BRIDGEMASTER<sup>®</sup> can be used to waterproof and surface a wide variety of structures operating under a range of climatic environments and traffic conditions, from light duty pedestrian walkways to major bridges and viaducts subject to heavy vehicular traffic. Suitable for application to concrete, steel and aluminium substrates.

BRIDGEMASTER<sup>®</sup> is available in two standard grades:

- PD Grade – For pedestrian areas. A 4mm screed plus aggregate and sealer.
- HD Grade – For vehicular trafficked areas. A 6mm screed plus aggregate and sealer.

BRIDGEMASTER<sup>®</sup> is designed for use on gradients up to 1 in 8:

- Standard Grade: 1 in 12 (8%; 5°; 5% of 90°)
- Ramp Grade: 1 in 8 (12.5%; 7°; 8% of 90°)

Typical applications include:

- Road Bridges
- Bascule Bridges
- Swing Bridges
- Bridges with reduced load limits
- Roll-on/off Ramps
- Marine Structures
- Loading Bays
- Footbridges
- Walkways
- Steps
- Stadium Spectator Areas

## Product Features

- Long and effective life
- Waterproofing
- High friction surface
- Durable
- Rapid cure even at low temperatures
- Lightweight
- Aids composite action
- High bond strength to substrate
- High mechanical strength
- Can be tailored to individual project requirements
- Able to carry load after 1 hour
- On site Quality Assurance programme
- Applied only by authorised and trained contractors

## Technical Data

| PROPERTY <sup>1</sup>         | VALUE        |
|-------------------------------|--------------|
| Application Temperature Range | -5°C to 45°C |
| Tropical Grade                | 20°C to 45°C |
| Summer Grade                  | 15°C to 35°C |
| Winter Grade                  | 0°C to 10°C  |
| With Cold Cure Additive       | -5°C to 0°C  |

Note: Summer and Winter Grades utilise the same resin but are supplied with different size preweighed bags of BPO Powder Catalyst.

## Surface Preparation

All surface coating systems are dependent on the quality of surface preparation

All substrates must be clean, dry and structurally sound, free from laitance, oils and other surface contaminants.

## Concrete

New concrete decks should be a minimum of fourteen days old. If additives, cement replacement or curing agents have been used please contact Technical Service.

All concrete decks must be prepared by suitable mechanical means such as vacuum blasting to provide a sound surface.

Use METASET® ResiFilla Repair compound for rapid repairs to damaged concrete.

Where the use of a non-structural screed or a lightweight concrete substrate is proposed, contact Technical Services. These materials often have low cohesive strength or retain water in open pores.

## Steel

On steel surfaces all rust, dirt and contamination should be removed to expose bright metal to achieve a surface finish to comply with Swedish standard Sa 2.5.

For compatibility with other construction materials or where additives, cement replacement or curing compounds have been used consult Technical Service.

## Application

### Primer

The substrate must be primed with an appropriate GCP primer prior to application of the BRIDGEMASTER® membrane.

- PAB1 or PAR1 Primer for Concrete substrates
- ZED S94 Primer for Steel substrates.

Please refer to the relevant datasheet for further information.

## BRIDGEMASTER®

The standard application temperature range for BRIDGEMASTER® is 0 °C (32 °F) to 35 °C (86 °F) Summer Grade kits with 50g bags of BPO Powder Catalyst are supplied from 1st April to 31st September, Winter Grade kits with 80g bags of BPO are supplied from 1st October to 31st March.

BRIDGEMASTER® is a three-part screed, supplied in pre-weighed quantities ready for on-site mixing. Apply by pouring and spreading using a toothed rake or trowel, followed by a spiked roller.

Once rolled the screed is blinded with dry aggregate.

Once the screed has cured, excess aggregate should be removed.

A coat of Sealer Matt Clear is then applied to enhance aggregate retention and help maintain a clean surface. The system can be trafficked once the Sealer Matt Clear has fully cured.

## Coverage

| THICKNESS | BINDER                 | AGGREGATE                               | SEALER                    |
|-----------|------------------------|---|---------------------------|
| 6 mm      | 12.6 kg/m <sup>2</sup> | 4-7 kg/m <sup>2</sup><br>size 1.0-3.0mm | 0.3-0.5 kg/m <sup>2</sup> |
| 4 mm      | 8.4 kg/m <sup>2</sup>  | 4-7 kg/m <sup>2</sup><br>size 0.7-1.4mm | 0.3-0.5 kg/m <sup>2</sup> |

The binder coverage rate will vary with surface texture.

Aggregate and sealer consumption will vary depending upon the size of aggregate used.

## Aggregates & Colour

The current aggregates acceptable for use are Chinese Bauxite, Guyanan Bauxite and Green Granite. Use of any other aggregate is prohibited unless approval has been granted by Technical Service. Please see our Aggregate Price List for further details.

The BRIDGEMASTER® resin is available in Black and Neutral colours. For uniformity of appearance of the finished system, the closest colour to the proposed Aggregate colour should be ordered.

## Cleaning

All tools and equipment should be cleaned with acetone before the material is allowed to cure.

## Packaging & Storage

Primer: 5 & 20kg kits

Screed: 24kg kits including bag of BPO Powder Catalyst (Summer 50g, Winter 80g)

Aggregate: 25kg bags (typically)

Sealer Matt Clear

Resin: 5 & 20kg

BPO: 150g & 600g bags

All components of the BRIDGEMASTER® system should be stored in cool, dry, protected conditions, out of direct sunlight and in accordance with the relevant Health & Safety regulations. Storage temperatures must not exceed 25°C. Do not store near naked flames or foodstuffs.

Stored in unopened containers, under the correct conditions, the components have a minimum shelf life of twelve months. If your product is more than twelve months old, contact Technical Service before use.

## Ancillaries

GCP produces a range of products to compliment the BRIDGEMASTER® system. These include:

- METASET® Sealants, ResiFilla Repair Compounds – fast curing compatible sealants and mortars available for horizontal and vertical work.
- SENTINEL® Expansion Joints – a complete range of compatible expansion joints.
- SAFETRACK® LM – a flexible, bright, abrasion resistant line marking system available in a range of colours

## Health & Safety

Please refer to our Safety Data Sheets for further information.

## General Information

BRIDGEMASTER® is one of a wide range of specialist waterproofing, surfacing and repair materials manufactured and supplied by GCP Applied Technologies. If you require any further information on this or any other of our products, please contact our Technical Service or visit [www.gcpat.com](http://www.gcpat.com)



**Certificate Number 15174**  
**ISO 9001, ISO 14001**

[gcpat.uk](http://gcpat.uk) | Technical Services, Manchester, UK (+44 (0) 1565 633111)

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MA105 BRIDGEMASTER® DATASHEET (Issue 10)

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