PRODUCT DATA

THORMAJOINT™ BRIDGE JOINT BINDER

BJ200 Red

ThormaJoint™ is a high-performance bridge joint system of the category 'Flexible Plug Expansion Joint'. It is designed for use on highway bridges and has a movement range of ±25mm. It is available in a range of grades to cover all climate conditions. The range of ThormaJoint™ grades includes the following:

TEMPERATE AND COLD CLIMATE GRADES	TROPICAL GRADES
BJ200 Green	**BJ200 Red**
BJ Super EX	**BJ200ST**
BJ200 Blue	**BJ300 Tropical**

Applications

BJ200 Red is a polymer modified bituminous compound used as a binder system in flexible plug expansion joints. **BJ200 Red** is a general-purpose grade ideal for use in locations with hot climates. It produces a stable and deformation resistant joint running surface whilst at the same time providing good movement capability for the expansion and contraction of the bridge joint.

Properties

- Performs over a wide temperature range; 0 °C to +45 °C
- Flexible (applied in frost free climates)
- Resistant to flow at high temperatures
- Good recovery / resilience
- Vertical movement range of installed joint: 3mm
- Horizontal movement range of installed joint: ± 25mm
- Good resistance to wheel tracking
- Pouring temperature: 190 - 200 °C

Installation

Installation shall be carried out by experienced and trained crews approved by Ennis Flint. Installation shall be carried out according to Ennis Flint guidelines and method statement. A copy of this document is available on request.

info@ennisflint.com +44 (0) 1257 225 100 www.ennisflint.com

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Application

Thormajoint™ may be installed as new works or as a maintenance solution for worn out or damaged joints. For new works or existing bridges where the surfacing has been renewed, the surfacing shall be applied to the bridge deck including the bridge gap. After compaction and cooling the asphalt shall be removed over the expansion gap (usually to a width of 500 mm) to allow installation of the flexible plug joint.

For replacement of existing joints, often the concrete and asphalt becomes damaged as a result of the removal process. Care should be taken to ensure the joint recess is restored to good condition before filling with the new joint.

Typical Test Results

TEST	TEST METHOD	TYPICAL TEST RESULT	EF SPECIFICATION
Softening point (°C)	EN 1427: 2000	100	> 95
Specific gravity	In-house method	1.35	1.35 ± 0.1
Cone penetration (dmm) at 25°C	EN 13880-2: 2003	20	10 - 30
Plate flow (mm)	EN 13880-5: 2004	0	0
Extension / Bond test (50%) at 25°C	ASTM D5329	3/3 Passes	3/3 Passes

Packaging and Storage

BJ200 Red is supplied in block form in 4-ply sacks holding approximately 18 kg of material. Keep in dry storage under cover. **BJ200 Red** has a shelf life in excess of 24 months.

Safe Handling Precautions

- Suitable protective clothing should be worn when handling hot materials.
- Do not allow water to contact hot materials.
- Do not exceed recommended temperatures.
- If molten material contacts skin do not attempt to remove. Immerse affected area in cold running water. Seek immediate medical advice.
- For further information refer to safety data sheet.

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