

# HAPAS

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HAPAS Certificate

19/H287

Product Sheet 1

## MEON PATCH REPAIR PRODUCTS FOR HIGHWAYS

### MAGMA PATCHMASTER H575 COLD-LAY FOOTWAY PERMANENT REPAIR MATERIAL

This HAPAS Certificate Product Sheet<sup>(1)</sup> is issued by the British Board of Agrément (BBA), supported by National Highways (acting on behalf of the Overseeing Organisations of the Department for Transport; Transport Scotland; the Welsh Government and the Department for Infrastructure, Northern Ireland), the Association of Directors of Environment, Economy, Planning and Transport (ADEPT), the Local Government Technical Advisers Group and industry bodies. HAPAS Certificates are normally each subject to a review every three years.

(1) Hereinafter referred to as 'Certificate'.

This Certificate relates to Magma Patchmaster H575 Cold-Lay Footway Permanent Repair Material, for use as a surface course in reinstatement work within footways, footpaths and cycle tracks.

#### CERTIFICATION INCLUDES:

- factors relating to compliance with HAPAS requirements
- factors relating to compliance with Regulations where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



#### KEY FACTORS ASSESSED

**Performance** — the product meets the requirements of the *Guideline for the Approval and Certification of Permanent Cold-Lay Surfacing Materials (PCSMs)* for the reinstatement of openings in footways, footpaths and cycle tracks (see section 6).

**Durability** — the product can be used in the first-time permanent reinstatement of openings in any position in footways, footpaths and cycle tracks to provide a durable surface course (see section 8).

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Second issue: 4 August 2022

Originally certificated on 18 February 2019

Hardy Giesler  
Chief Executive Officer

*The BBA is a UKAS accredited certification body – Number 113.*

*The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)*

*Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.*

*Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

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## Requirements

In the opinion of the BBA, Magma Patchmaster H575 Cold-Lay Footway Permanent Repair Material, when assessed in accordance with the *Guideline for the Approval and Certification of Permanent Cold-Lay Surface Materials (PCSMs)* and used in accordance with the provisions of this Certificate, is suitable for use as a permanent cold-lay surface course in footways, footpaths and cycle tracks as defined in the *New Roads and Street Works Act 1991 : Specification for the Reinstatement for Openings in Highways*.

## Regulations

### Construction (Design and Management) Regulations 2015

### Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See section: *3 Delivery and site handling (3.1 and 3.3)* of this Certificate.

## Technical Specification

### 1 Description

1.1 Magma Patchmaster H575 Cold-lay Footway Permanent Repair Material is a bituminous cold-lay surfacing material, consisting of graded basalt, gritstone aggregate and limestone filler to BS EN 13043 : 2002, coated with a paving grade bitumen to BS EN 12591 : 2009 and a proprietary additive.

1.2 The Certificate holder recommends the following ancillary items for use with the product, but these materials have not been assessed by the BBA and are outside the scope of this Certificate: Magma Edgefast C60 B4 sealant, C40 B4 bitumen emulsion tack coat and joint paint to BS EN 13808 : 2013, for priming and sealing the substrate surfaces prior to installation.

### 2 Manufacture

2.1 The product is manufactured using conventional asphalt production methods.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis as part of a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

### 3 Delivery and site handling

3.1 The product is supplied pre-packed in 25 kg plastic containers or bags. The packing is stamped with the product code name, coding traceable to the date of production, health and safety information and installation instructions. The product may also be supplied in bulk bags and bulk tipper loads.

3.2 The product must be stored in cool dry conditions protected from frost and high temperatures.

3.3 The Certificate holder has taken the responsibility of classifying and labelling the product under the *CLP Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Magma Patchmaster H575 Cold-lay Footway Permanent Repair Material.

### Design Considerations

#### 4 Use

Magma Patchmaster H575 Cold-lay Footway Permanent Repair Material is satisfactory for use as a PCSM, at any position, in reinstatements within footways, footpaths and cycle tracks in accordance with Appendix A2.4 of the *New Roads and Streets Works Act 1991 : Specification for the Reinstatement of Openings in Highways (SROH)*, Fourth Edition, May 2020.

#### 5 Practicability of installation

The product is designed to be installed by a competent installer experienced with this type of product.

#### 6 Performance

The results of a two-year performance trial and of tests to determine the air voids content of the product were satisfactory and complied with the requirements of the *Guideline for the Approval and Certification of Permanent Cold-Lay Surfacing Materials (PCSMs)* (see section 12 of this Certificate).

#### 7 Maintenance

The product is not subject to any routine maintenance requirements, but any damage must be repaired.

#### 8 Durability

The product can be used as a PCSM in any position in all reinstatements in footways, footpaths and cycle tracks to provide a durable surface course.

### Installation

#### 9 General

Magma Patchmaster H575 Cold-lay Footway Permanent Repair Material must be installed in accordance with the Certificate holder's instructions, this Certificate and the relevant requirements of the SROH.

#### 10 Preparation of the substrate

10.1 Surfaces to be repaired must be clean and free from loose material, oil, grease, standing water or other contaminants.

10.2 The substrate and vertical edges must be treated with one of the ancillary items specified in section 1.2.

#### 11 Application

11.1 Sufficient Magma Patchmaster H575 Cold-lay Footway Permanent Repair Material must be placed in the opening to provide a surcharge of material for compaction.

11.2 The material is compacted to the surrounding level using a suitable compactor/roller in accordance with the Certificate holder's instructions and Section S10 and Appendix A8 *Compaction Requirements* of the SROH.

### 12 Tests

12.1 Laboratory performance tests were carried out on the product in accordance with the requirements of the *Guideline for the Approval and Certification of Permanent Cold-Lay Surfacing Materials (PCSMs)*. The results were satisfactory (see Table 1).

*Table 1 Laboratory performance tests and requirements*

Test	Requirements (%)	Method
Air voids content <sup>(1)</sup> footway, footpath and cycle track	2–13	Guideline Document <sup>(2)</sup> (Section 6.2)

(1) Measurements recorded on cores removed and tested within six months.

(2) *Guideline for the Approval and Certification of Permanent Cold-Lay Surfacing Materials (PCSMs)*.

### Approval trials

12.2 A two-year performance trial in footways using the product with gritstone aggregate was conducted.

### 13 Investigations

The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

## Bibliography

BS EN 12591 : 2009 *Bitumen and bituminous binders — Specifications for paving grade bitumens*

BS EN 13043 : 2002 *Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas*

BS EN 13808 : 2013 *Bitumen and bituminous binders — Framework for specifying cationic bituminous emulsions*

*Guideline for the Approval and Certification of Permanent Cold-lay Surfacing Materials (PCSMs)*, April 2010

*New Roads and Street Works Act 1991 : Specification for the Reinstatement for Openings in Highways. Fourth Edition, May 2020*

### 14 Conditions

14.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

14.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

14.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

14.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

14.5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

14.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.