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**Agrément Certificate**

**20/5804**

Product Sheet 2

## HD SHARMAN PROTECTIVE ROOF COATING SYSTEMS

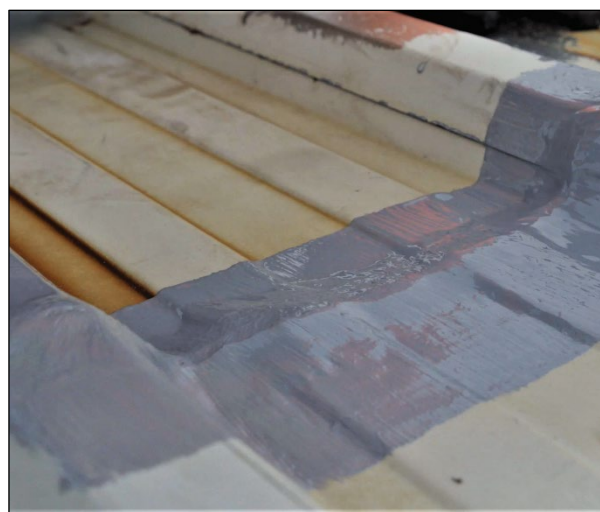
### SEAMSIL 100 CUT EDGE CORROSION SYSTEM

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the Seamsil 100 Cut Edge Corrosion System, for use as a liquid-applied cut edge protection against corrosion for metal roofing sheets.

(1) Hereinafter referred to as 'Certificate'.

#### CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information 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

**Properties in relation to fire** — the system will not significantly affect the fire classification of the roof to which it is applied (see section 5).

**Protection from corrosion** — the system will provide satisfactory resistance to corrosion of steel substrates (see section 6).

**Adhesion** — the adhesion of the system is satisfactory (see section 7).

**Durability** — under normal service conditions, the system will provide a durable protection coating for a steel substrate with a service life in excess of 25 years (see section 10).

The BBA has awarded this Certificate to the company named above for the system described herein. This system 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: 25 March 2022  
Originally certificated on 29 September 2020

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 MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.  
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## Regulations

In the opinion of the BBA, the Seamsil 100 Cut Edge Corrosion System, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



### The Building Regulations 2010 (England and Wales) (as amended)

<b>Requirement:</b>	<b>B4(2)</b>	<b>External fire spread</b>
Comment:		The system can contribute to satisfying this Requirement. See section 5 of this Certificate.
<b>Regulation:</b>	<b>7(1)</b>	<b>Materials and workmanship</b>
Comment:		The system is acceptable. See section 10 and the <i>Installation</i> part of this Certificate.



### The Building (Scotland) Regulations 2004 (as amended)

<b>Regulation:</b>	<b>8(1)(2)</b>	<b>Durability, workmanship and fitness of materials</b>
Comment:		The use of the system satisfies the requirements of this Regulation. See sections 9.1 and 10 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards applicable to construction</b>
Standard:	2.8	Spread from neighbouring buildings
Comment:		The system can contribute to satisfying this Standard with reference to clause 2.8.1 <sup>(1)(2)</sup> . See section 5 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The system can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
<b>Regulation:</b>	<b>12</b>	<b>Building standards applicable to conversions</b>
Comment:		Comments in relation to the system under Regulation 9, Standards 1 to 6 also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> .

(1) Technical Handbook (Domestic).  
(2) Technical Handbook (Non-Domestic).



### The Building Regulations (Northern Ireland) 2012 (as amended)

<b>Regulation:</b>	<b>23(a) (b)(i)</b>	<b>Fitness of materials and workmanship</b>
Comment:		The system is acceptable. See section 10 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>36(b)</b>	<b>External fire spread</b>
Comment:		The system can contribute to satisfying this Regulation. See section 5 of this Certificate.

## 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* (3.3 and 3.4) of this Certificate.

### 1 Description

The Seamsil 100 Cut Edge Corrosion System consists of:

- Seamsil Sealant — an alkoxy moisture curing sealant, gun-applied into the gap between the upper and lower sheets to form a completely bridged seal
- Seamsil Basecoat — an alkoxy curing sealant suspended within a solvent carrier, based on Seamsil Sealant with the addition of solvent to allow brush application
- Seamsil Topcoat — an alkoxy curing sealant suspended in a solvent carrier, available in a range of RAL colours, for brush application
- Delcote Coating — a silicone-based topcoat, applied by spray, brush or roller in two coats, available in three basic colours: Albany, Slate and Goosewing Grey.

### 2 Manufacture

2.1 The system components are manufactured by a batch-blending process.

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 through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

2.3 The management system of HD SHARMAN Ltd has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by NQA (Certificate 9392).

### 3 Delivery and site handling

3.1 Seamsil Topcoat and Seamsil Basecoat are delivered to site in airtight cans; Seamsil Sealant is delivered to site in cartridges. The system components packaging bears the Certificate holder's details, product name, hazard labels, transportation information, batch number and the BBA Logo incorporating the number of this Certificate.

3.2 The system components must be stored in well-ventilated, dry, frost-free conditions, not exposed to high temperatures and away from direct sunlight, oxidising agents and acids. Partially used containers must be tightly sealed when not in use.

3.3 The packaging sizes are given in Table 1.

*Table 1 Packaging*

Component name	Packaging	Unit type	Unit size	Number of units per pack
Seamsil Topcoat	Box/pallet	Cans	5kg	4 per box/66 cans per pallet
Seamsil Basecoat	Box/pallet	Cans	5kg	4 per box/66 cans per pallet
Seamsil Sealant	Box/pallet	Cartridge	310 mℓ	25 per box/64 boxes per pallet
Delcote Coating	Pallet	Cans	20 kg	28 cans per pallet

3.4 The Certificate holder has taken the responsibility of classifying and labelling the system components 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 the Seamsil 100 Cut Edge Corrosion System.

### Design Considerations

#### 4 Use

The Seamsil 100 Cut Edge Corrosion System is satisfactory for the use as a cut edge protection against corrosion for galvanized steel and plastisol coated galvanized roofing sheets on a roof with a maximum pitch of 70 degrees.

#### 5 Properties in relation to fire



5.1 A related system comprising of Seamsil Sealant, a brush applied 220 µm thick Seamsil Basecoat and either two brush applied 154 µm thick coats of Delcote Coating<sup>(1)</sup> (see Product Sheet 1 of this Certificate) or a brush applied 220 µm thick Seamsil Topcoat<sup>(2)</sup> used as a protective coat and tested in a sloping position to DD CEN/TS 1187 : 2012, Test 4, achieved a classification to BS EN 13501-5 : 2016 of B<sub>ROOF</sub>(t4).

- (1) Fire test report and Fire Classification report for Delcote Coating, references Q100992-1001 and Q100992-1002 respectively, conducted by BRE Global. Reports available from the Certificate holder.
- (2) Fire test report and Fire Classification report for Seamsil Topcoat, references Q100992-1004 and Q100992-1005 respectively, conducted by BRE Global. Reports available from the Certificate holder

5.2 The classification and permissible areas of use of other specifications should be confirmed by reference to the requirements of the documents supporting the national Building Regulations.

#### 6 Protection from corrosion

6.1 The system will provide cut edge protection against corrosion to the galvanized steel substrates from all normal atmospheric corrosive conditions, including coastal and industrial conditions (see sections 7.2 and 10.2).

6.2 Where the system is to be installed in heavily polluted areas, such as near chemical works or foundries, the advice of the Certificate holder must be sought.

#### 7 Adhesion

The adhesion of the system to the substrates named in section 4.1 is satisfactory.

#### 8 Resistance to mechanical damage

The system is resistant to abrasion and damage by concentrated loads but can be damaged by sharp objects and impacts. Where pedestrian access is required for maintenance, suitable precautions to prevent damage to the coating, such as walkways, should be used.

#### 9 Maintenance



9.1 The system must be the subject of annual inspection and maintenance.

9.2 Where damage has occurred, it should be repaired in accordance with section 14 and the Certificate holder's instructions.

## 10 Durability



The system will provide a durable protective coating for galvanized steel substrates with a service life in excess of 25 years.

## Installation

### 11 General

11.1 Application of the Seamsil 100 Cut Edge Corrosion System must be carried out in accordance with the Certificate holder's instructions and this Certificate.

11.2 Substrates to which the system is to be applied, must be clean, free from loose and flaking material (including rust), degreased and dry. In cases of doubt on the requirements for surface treatment, the advice of the Certificate holder should be sort.

11.3 The surface must not be cleaned with soap detergent or white spirit as these can adversely affect adhesion.

11.4 Installation should not be carried out during inclement weather (eg rain, fog or snow) and when rain is expected within two to four hours depending on temperature. The system must be applied when the air and substrate temperatures are greater than 3°C, air temperatures must not exceed 38°C and the substrate temperatures must not exceed 60°C.

### 12 Procedure

12.1 Steel substrates are treated with Seamsil Basecoat, prior to the application of Seamsil Topcoat or Delcote Coating, in accordance with the Certificate holder's instructions.

12.2 Seamsil Basecoat should be used to treat areas 25 mm from the edge of the roof sheet or either side of the overlap and a further 10 mm beyond the prepared area of corrosion. Seamsil Topcoat or Delcote Coating should extend onto the sheet by a further 10 mm.

12.3 Installation of Seamsil Basecoat and Seamsil Topcoat system is carried out in two coats of contrasting shades using a brush at a minimum wet film thickness of 220 µm per coat. The completed system dry film thickness should be a minimum of 350 µm.

12.4 Alternatively, installation of the system may be carried out by applying Seamsil Basecoat by brush at a minimum wet film thickness of 220 µm before applying Delcote Coating by brush or roller at a minimum wet film thickness of 250 µm. The completed system dry film thickness should be a minimum of 325 µm.

12.5 Once Seamsil Basecoat is touch dry, a single coat of Delcote Coating is applied to the Seamsil Basecoat.

### 13 Repair

The repair of minor damage to the system can be achieved effectively by cleaning back to the unweathered material and recoating the damaged area with the system at the in accordance with section 12.

### 14 Tests

Tests were carried out and the results assessed to determine:

- infrared analysis
- solids content
- water vapour permeability
- abrasion resistance
- delamination strength
- sulfur dioxide exposure
- salt fog exposure
- heat ageing
- UV ageing.

### 15 Investigations

15.1 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.

15.2 A visit was made to a site in progress to assess the practicability of installation.

15.3 Data on fire performance were assessed.

## Bibliography

BS EN 13501-5 : 2016 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roof tests*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

DD CEN/TS 1187 : 2012 *Test methods for external fire exposure to roofs*

### 16 Conditions

#### 16.1 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.

16.2 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.

16.3 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.

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

16.5 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.

16.6 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.