



# NSAI

## CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

**0050 - CPR - 0201**

**System 2+**

In compliance with the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC, it has been stated that the construction product:

**Aggregates for bituminous mixtures and surface treatments  
in accordance with Annex ZA of the following:**

<b>I.S. EN 13043</b>	<b>Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas.</b>
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Placed on the market by:

**Roadstone Ltd  
Arklow  
Co. Wicklow**

And produced in the factory:

**Roadstone Ltd  
Arklow  
Co. Wicklow**

is submitted by the manufacturer to the initial type-testing of the product and its factory production control and that the approved body – National Standards Authority of Ireland – has performed the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of factory production control described in Annex ZA of the standards listed above were applied.

This certificate was first issued on 23/01/2014 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly.

**File no:** 1.119.009  
**Approval Date:** 23/12/2003  
**Last amended Date:** 03/07/2020  
**Expiry Date:** 31/10/2021

**Signed:**

Seán Balfe – Director of Sustainability & the  
Built Environment

Issued By : NSAI, 1 Swift Square, Northwood Business Park, Santry, Dublin 9.

# DECLARATION OF PERFORMANCE

## Aggregates for use in Bituminous Mixtures and Surface treatments

### Arklow

**1. Unique identification code of the product type:**

Code	Description	Category
1571002	20/31.5mm	G <sub>C</sub> 85/20
1571034	10/20mm	G <sub>C</sub> 85/20
1572009	6.3/14mm	G <sub>C</sub> 85/20
1572008	4/10mm	G <sub>C</sub> 85/20
1572011	2/6.3mm	G <sub>C</sub> 85/20
1570002	0/4mm (CP)	G <sub>A</sub> 85/G <sub>Tc</sub> 20 – G <sub>F</sub> 85

**2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:**

Production details can be traced via dispatch docket.

**3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:**

I.S. EN 13043: 2013: Aggregates for use in Bituminous Mixtures and Surface treatments  
S.R17: 2002 Guidance on the use of I.S EN 13043

**4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):**

Roadstone Ltd.  
Fortunestown  
Dublin 24

**5. Not Applicable**

**6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:**

System 2+

**7. Notified certification body:**

NSAI (identification No. 050) performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control, and issued the certificate of constancy of conformity of the factory production control.

## 8. Declared Performance

Characteristic	Declared Performance	Harmonised Technical Specification
Apparent Density	2.72Mg/m <sup>3</sup>	I.S. EN 1097
S.S. Dry Density	2.69Mg/m <sup>3</sup>	I.S. EN 1097
Oven Dry Density	2.68Mg/m <sup>3</sup>	I.S. EN 1097
Fines Content	F4	I.S. EN 933
Fines Content (Fine agg)	F16	I.S. EN 933
Methylene Blue Value	MB <sub>f</sub> .5	I.S. EN 933-9
Water Absorption	0.6%	I.S. EN 1097
Percentage crushed and broken	C100/0	I.S. EN 933-5
Resistance to fragmentation	LA <sub>15</sub>	I.S. EN 1097-2
Resistance to Polishing Wear/Attrition	PSV 60	I.S. EN 1097-8
Resistance to Abrasion	AAV <sub>10</sub>	I.S. EN 1097-8 Annex A
Resistance to Wear	M <sub>DE</sub> 25	I.S. EN 1097-1
Resistance to freezing and thawing	MS <sub>6</sub>	I.S. EN 1367-2
Drying Shrinkage	0.02	I.S. EN 1367-4
Durability against Alkali-Silica reactivity	Non -reactive	
Chloride Content (Water Soluble)	0.001%	I.S. EN 1744-1
Sulphate Content (Acid Soluble)	AS <.2%	I.S. EN 1744-1
Total Sulphur	TS <1%	I.S. EN 1744-1
Flakiness Index	FI <sub>15</sub>	IS.EN 933
Rock Type	Metadolerite	

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of Roadstone Ltd.

### Signed for and on behalf of the manufacturer by:

Alan Lowe, Senior Technical Manager, Roadstone Ltd.

(Name and Function)

Belgard, 6/01/2020

(Place and Date of Issue)



(Signature)

SAFETY DATA SHEET			
PRODUCT		BITUMINOUS MATERIALS	
ISSUE DATE	FEBRUARY 2015	ISSUE No.	1
Page 1 of 6			
1. Identification of Substance / Preparation & Company / Undertaking			
SUBSTANCE NAME		BITUMINOUS MATERIALS	
APPLICATION			
<p>Hot bituminous road materials are designed for use in construction and repair of roads and other paved areas. Hot bituminous road materials should be used in Accordance with the relevant National and/or European Standards and Codes of Practice.</p>			
COMPANY DETAILS			
Roadstone Ltd, Fortunestown, Tallaght, Dublin 24.			
T	+353 1 4041200		
W	<a href="http://www.roadstone.ie">www.roadstone.ie</a>		
E	info@roadstone.ie		
2. Hazard Identification			
<p>NOT classified as dangerous in accordance with Directive 67/548/EEC or EC 1272/2008</p> <p>The main hazards presented by Bituminous Materials relate to the temperature of the mix and /or fumes from the hot binder. The following hazards may apply:</p> <ul style="list-style-type: none"> <li>- Hot materials may burn the skin.</li> <li>- Fumes from Bituminous Materials are unlikely to be hazardous when laid in open air situations, but there may be a risk to health by continuous inhalation of high vapour concentrations which might arise in poorly ventilated, confined or semi-confined spaces.</li> <li>- Bituminous Materials are not a dusty material, but respirable dust may be released by cutting, drilling or planing hardened product. If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard.</li> </ul>			
3. Composition / Information on Ingredients			
<p>Bituminous Materials are mixtures of aggregates and bitumen. Bitumen is a hydrocarbon derived from the distillation of petroleum crude oil, but may be synthetic or modified by the use of polymers and other chemicals. Bitumen content is typically &lt;10%. Other materials such as cellulose fibres, latex and other additives may be added to the products.</p> <p>Aggregates used in bituminous materials may be naturally occurring (eg. limestone, gritstone, granite, sand etc), artificial (e.g. slag aggregates) or recycled (e.g. road planings, inert .construction and demolition waste, glass etc.).</p>			

#### 4. First Aid Measures

**Inhalation:**

Immediately remove to fresh air. If breathing difficulties are experienced, seek medical attention. If breathing has stopped, commence artificial resuscitation and seek medical attention immediately.

**Skin Contact:**

Burns caused by contact with hot material should be cooled by immediately flushing with large amounts of cold water. Do not attempt to remove anything from the burn area unless required to allow breathing. Seek medical attention. Bitumen may be removed under medical supervision.

**Eye Contact:**

If material is hot, apply the same measures as 'skin contact' above. If the material is cold, immediately and thoroughly irrigate with eye wash solution or clean water. If symptoms develop or persist, seek medical attention.

**Ingestion:**

Remove to fresh air. If person is conscious, rinse out mouth and give water to drink. Seek medical advice.

#### 5. Fire Fighting Measures

**Suitable Extinguishing Media:**

Dry powder, foam.

**Unsuitable Extinguishing Media:**

Do not use water. CO<sub>2</sub> is also not suitable.

**Special Exposure Hazards in Fire:**

Hydrocarbon fumes may be released, along with other hazardous combustion products including smoke.

**Special Protective Equipment for Fire Fighters:**

Proper protective equipment including suitable respirators or breathing apparatus must be worn.

#### 6. Accidental Release Measures

**Personal Precautions:**

Wear overalls, heat resistant safety boots and heat resistant, impervious gloves. Wear suitable respiratory protection in poorly ventilated or enclosed areas. Keep away from ignition sources. See Section 8 for guidance on personal protective equipment. See Section 7 for guidance on handling the product.

**Environmental Precautions:**

Prevent Bituminous Materials from entering watercourses, ditches and drains.

**Methods for Cleaning:**

Scrape up using suitable mechanical methods.

## 7. Handling and Storage

### **Handling:**

Skin contact with the product should be avoided. Inhalation of fumes should be avoided as far as is reasonably practicable.

If the formation of vapours is a risk, then additional ventilation should be provided.

Handle away from sources of ignition and heat. Do not smoke, eat or drink during use.

### **Storage:**

No special requirements. Bituminous Materials are normally used upon receipt.

## 8. Exposure Controls / Personal Protection

### **Take Measures to Prevent:**

(a) Inhalation of vapours/fumes.

(b) Inhalation of excessive quantities of dust during cutting, drilling, planing or surface treatment of hardened bituminous materials.

### **Control Measures:**

Dust caused by cutting or planing hardened bituminous materials should be controlled by containment, suppression and extraction/ filtration where possible.

Asphalt should only be laid in well ventilated areas.

### **Inhalation:**

Use only in well-ventilated areas.

### **Eyes, Skin & Hands:**

Wear suitable protective clothing, gloves and eye / face protection.

### **Respiratory Protection:**

Always ensure adequate ventilation and avoid breathing vapour/ fumes. Suitable respiratory protection should be used if required to ensure exposure is below the Workplace Exposure Levels.

### **Hand Protection:**

Impermeable, heat resistant gloves should be worn.

### **Eye Protection:**

Goggles should be worn if there is a risk of product entering the eyes (including dust).

### **Skin Protection:**

Overalls and/or long-sleeved jackets and full length trousers should be worn to protect skin from burns. Clean overalls as necessary to prevent bituminous materials permeating to clothing or skin underneath. Heat resistant safety boots should be worn to protect feet. The use of skin barrier cream is also recommended.

Hands should be washed thoroughly before handling or eating food or drink.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Black, granular solid
<b>Odour:</b>	Strong, characteristic
<b>pH:</b>	Neutral
<b>Boiling Point / Range:</b>	Not applicable
<b>Melting Point / Range:</b>	90 - 100°C
<b>Flash Point:</b>	Above 200°C
<b>Auto Flammability:</b>	Above 230°C
<b>Flammability:</b>	Not determined
<b>Explosive Properties:</b>	Not determined
<b>Oxidising Properties:</b>	Not determined
<b>Vapour Pressure:</b>	Not applicable
<b>Relative Density:</b>	Above 2.0
<b>Water Solubility:</b>	Insoluble
<b>Fat Solubility:</b>	Not determined

## 10. Stability and Reactivity

### Conditions to Avoid:

Sources of ignition and temperatures above 200°C. Water coming into contact with hot bituminous materials may give rise to steam leading to a reduction of vision.

### Materials to Avoid:

Strong oxidising agents, e.g. chlorates which may be used in agriculture.

### Hazardous Decomposition Products:

Bituminous materials do not decompose at ambient temperatures

## 11. Toxicological Information

### Inhalation:

Inhalation of respirable dust from aggregate contained in bituminous materials whilst cutting or planing hardened asphalt can lead to respiratory system damage and disease. Inhalation of fumes over a prolonged period may cause irritation of the respiratory system.

Bitumen used in asphalt may release small amounts of hydrogen sulphide gas. With good general ventilation, this is not likely to cause any problems, but in poorly ventilated enclosed spaces, concentrations may build up to hazardous levels.

### Skin Contact:

Contact with hot bituminous materials may cause burns. Prolonged skin contact may cause dermatitis and malignant warts.

### Eye Contact:

Product entering the eyes may cause irritation.

### Ingestion:

Ingestion is very unlikely. Seek medical attention.

## 12. Ecological Information

**Environmental Assessment:**

When used and disposed of as intended, no environmental effects are foreseen, and bituminous materials should not pose an ecological hazard.

**Mobility:**

Low mobility. Will sink in water and form a solid layer on the surface of the ground.

**Persistence and Degradability:**

Resistant to degradation and will persist in the environment.

**Ecotoxicity:**

Not expected to be toxic to aquatic organisms.

## 13. Disposal Consideration

**Safe Handling of Residues / Waste Product:**

Bituminous materials are classed as 'non-hazardous' but should be disposed of in accordance with local and national legal requirements. Hardened materials can be readily recycled.

## 14. Transport Information

**Special Carriage Requirements:**

Not classified as dangerous for transport.

Product should be kept covered.

Flammable materials, and containers that do or may become pressurised should be kept away from hot bituminous materials to avoid the risk of fire and explosion.

## 15. Regulatory Information

Classification: **Not classified as dangerous.**

However, consideration of the following risk & safety phrases is recommended:

**67/548/EEC****Risk Phrases:**

R34 - May cause burns.

R36/37 - Irritating to eyes and respiratory system.

**Safety Phrases:**

S36/ 37/ 39 - Wear suitable protective clothing, gloves and eye/face protection.

S51 - Use in well ventilated areas.

**EC1272/2008****Hazard Statements:**

H317 – May cause skin irritation

H335 – May cause respiratory irritation

H372 – Causes damage to organs through prolonged or repeated exposure that may be released if hardened bituminous materials are cut, drilled, milled or planed.)

**Precautionary Statements:**

P261 – Avoid breathing dust/fume/vapours.

P271 – Use only outdoors or in a well-ventilated area.

P281 – Use personal protective equipment as required (see Section 8)



## 16. Other Information

**Training Advice:**

Wear and use of PPE.

**Recommended Uses and Applications:**

Industrial and construction applications.

**Further Information:**

The Safety Health and Welfare at Work Chemical Agents Regulations 2001  
HSA Information Sheet – Safety Data Sheets for Hazardous Chemicals  
Dangerous Substances Directive (DSD) 67/548/EEC  
Classification, Labelling and Packaging Regulations (CLP) EC1272/2008

### Legal Notice

The information in this Safety Data Sheet was believed to be correct at the time of issue. However, no warranty is made or implied as to the accuracy or completeness of this information.

If you have purchased this product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

If you are an employer it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and any of the precautions which should be taken.

This Safety Data Sheet does not constitute the users own assessment of workplace risk, and it is the users sole responsibility to take all necessary precautions when using this product.