



**CURING EFFICIENCY  
OF  
RBS BLUECURE R90**

**Resapol Ltd**

**Ref.: LOGC/CC/R90(20/02/2024)/040324**

**ASTON SERVICES**

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Aston Services, Aston House, 6 Greville Drive, Birmingham B15 2UU

Tel: 0121 2043606

email: [enquiries@astonservices.co.uk](mailto:enquiries@astonservices.co.uk)

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## 1.0 INTRODUCTION

This investigation has been performed in response to a request made by Leeds Oil & Grease Co. Ltd., indicating a need for information regarding the curing efficiency of Logco-cure R90 (20/02/2024) curing compound, in accordance with BS 7542:1992:

## 2.0 EXPERIMENTAL PROGRAMME

### 2.1 Specimen Preparation

For this programme four specimens were cast: three for the curing compound and one as control. These samples were cast in accordance with BS 7542:1992.

The cement used complied with BS 12. The sand used was oven dry natural silica which complied with the requirements of BS 7542:1992. The proportion of sand to cement was 3 to 1, with 0.44 parts by mass of water. The samples were compacted using a vibrating table.

The curing compound used as it came without dilution and applied to the surface of the specimens at rate of 5.0 m<sup>2</sup> per litre, using a spray gun.

## 2.2 Experimental Procedure

The experimental procedure used was in accordance with BS 7542: 1992.

The specimens were placed in an environmental room at a temperature of  $38 \pm 1^{\circ}\text{C}$ , and at a relative humidity of  $35 \pm 5\%$  for the required 72 hours.

## 3.0 RESULTS

The individual value of curing efficiency index was calculated in accordance with BS 7542:1992. The results are provided in Table 1.

The mean curing efficiency index at 72 hours for Logco-cure R90 was found to be 92%

<p><b>For and on behalf of Aston Services</b></p> <p><i>Massud Sadegzadeh</i></p> <p><b>Dr.M.Sadegzadeh, BSc MBA PhD CEng MICE</b></p>	<p><b>Date: 04.03.2024</b></p>
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Type Compound	Application Rate m <sup>2</sup> per litre	Curing Efficiency Index E (%)			
		Test Number			Mean
		1	2	3	
Logco-Cure R90	<b>5.0</b>	<b>92</b>	<b>93</b>	<b>92</b>	<b>92</b>

**TABLE 1: Curing efficiency index results**