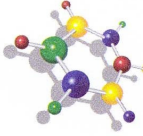




www.roadcoat.com



DEVELOPMENT



PRODUCTION



SPECIFICATION



INSTALLATION

ROADCOAT GmbH  
EN ISO 9001

## ROADCOAT **G3 OS-11** PARKDECK WATERPROOF DRIVING SURFACE

TECHNICAL DATA – FULL SYSTEM APPLIED TO CONCRETE

**STATIC AND DYNAMIC CRACK BRIDGING**

**ACCELERATED 20 YEARS WEATHERING**

**FREEZE-THAW WITH DE-ICING SALTS**

The **G3 OS-11** system will bridge existing cracks and cracks occurring after application as well as their dynamic movements due to traffic loading and temperature changes on structures designed, executed and performing to BS 8110.

**The Dynamic Crack Bridging Ability as tested below to BS EN 1504-2 is 50% more than the BS 8110 max. 0.4 mm design crack movement.**

The following data is from tests on the full system applied onto concrete.

**BS EN 1504-2:** Products and Systems for the Protection and Repair of Concrete Structures —  
Part 2: Surface protection systems for concrete

### Tests to BS EN 1504-2

“the basic requirement, the relevant performance characteristics of a crack bridging coating for exposed surfaces mechanically and low chemically loaded with de-icing salt influence.”

**G3 OS-11 total system thickness:** 2.5 mm

**Static Crack Bridging:** Class A5 > 2.5 mm at - 10°C

**Crack Bridging Class B 4.2 to EN 1062-7 Method B**

**Dynamic Crack Bridging:** 0.60 mm movement at - 10°C

- ageing 7 days at 70°C before testing
- sudden static crack of 0.50 mm induced at - 10°C
- 1000 cycles from 0.20 mm to 0.50 mm = ± 0.30 mm at 0.03Hz
- 20,000 cycles vertical ±0.05 sinus at 1Hz.
- Static crack bridging durability: tested system subjected to
- + 70°C for 7 days @ 0.50 mm crack width

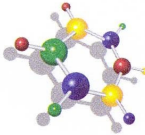
**There were no cracks in the G3-OS11 after these tests.**

**ROADCOAT (UK) Limited** enquiries@roadcoat.com www.roadcoat.com

RC G3 OS-11 Tech Data Rev 8



www.roadcoat.com



# ROADCOAT **G3 OS-11** PARKDECK WATERPROOF DRIVING SURFACE

TECHNICAL DATA – FULL SYSTEM APPLIED TO CONCRETE



DEVELOPMENT

### Weathering/UV

Accelerated 20 years simulated weathering 2525 hours to DIN 5323D1.

No negative visible effects or adhesion loss.

### Adhesion To Concrete after weathering

The application was done at 8°C with 85%RH. After 50 cycles heat/freeze-thaw with de-icing salt influence:

Adhesion after freeze/thaw	required	< 0.8N/mm <sup>2</sup>
	test results	1.6N/mm <sup>2</sup>



PRODUCTION

### Slip/Skid resistance

Driving surfaces	SRT wet	required > 55	test results > 65
------------------	---------	---------------	-------------------

Ramps	SRT wet	required > 60	test results > 70
-------	---------	---------------	-------------------

Classification BS EN 1504-2 : Class III



SPECIFICATION

### Water-Vapour Transmission Rate -Permeability

Mean Diffusion-Equivalent Air Layer (Sd)	required	< 5.00 m
	test results	2.71 m

Classification BS EN 1504-2: Permeable to water vapour

### Liquid Water Transmission Rate -Permeability

Mean Coefficient of liquid-Water Transmission rate(w)	required	< 0.10 kg/m <sup>2</sup> .hr <sup>0.5</sup>
	test results	0.05 kg/m <sup>2</sup> .hr <sup>0.5</sup>

Classification BS EN 1504-2 : Impermeable to liquid water

Copies of Tests available upon request.



INSTALLATION

ROADCOAT GmbH  
EN ISO 9001

**ROADCOAT (UK) Limited** enquiries@roadcoat.com www.roadcoat.com