

## PRODUCT DATA SHEET

# Parex BBLUL 1515

R4 Classification, Deep Section, Rapid Setting Repair Concrete

### DESCRIPTION

Parex BBLUL 1515 is a cement based, one-component, rapid setting, shrinkage compensated repair concrete.

Available in both Summer and Winter grades, for a wide range of temperature applications.

### USES

- High early strength grade (HES) track concreting.
- Construction of rail sleeper support pads.
- High strength support sections for steel and concrete super-structures.
- Concrete support of pit blocks.
- Top down construction under direct fix plates.
- Other concreting works requiring rapid return to service

### CHARACTERISTICS / ADVANTAGES

- Suitable for use in exposure classes: XO, XC4, XS3, XD3, XF1, XA1.
- Rapid setting.
- High early strength gain.
- 20 - 650mm application thickness.
- Good chemical resistance.
- No special curing required.

### APPROVALS / CERTIFICATES

LUL approved product for use LUL APR Reg: 2270. Tested in accordance with the appropriate parts of the following standards EN 12390 and EN 13412. Complies with the Classification R4 according to EN 1504-3 and is a concrete repair product for structural repair CC mortar (based on hydraulic cement).

### PRODUCT INFORMATION

<b>Composition</b>	Cement, selected fillers and aggregates, special additives.
<b>Packaging</b>	25 kg bags
<b>Shelf life</b>	6 months
<b>Storage conditions</b>	Store properly in dry conditions in undamaged and unopened original sealed packaging
<b>Appearance and colour</b>	Grey powder
<b>Maximum grain size</b>	6.0 mm
<b>Density</b>	>2250kg/m <sup>3</sup>
<b>Soluble chloride ion content</b>	<0.003% (EN 1015-17)

## TECHNICAL INFORMATION

<b>Compressive strength</b>	<u>1 hours</u>	<u>~15 N/mm<sup>2</sup>*</u>	(EN 12190)
	<u>2 hours</u>	<u>~20 N/mm<sup>2</sup></u>	
	<u>3 days</u>	<u>~35 N/mm<sup>2</sup></u>	
	<u>28 days</u>	<u>~55 N/mm<sup>2</sup></u>	
* When cured in polystyrene moulds			
<b>Modulus of elasticity in compression</b>	41.2 GPa @ 28 days		(EN 13412)
<b>Tensile strength</b>	2.4 N/mm <sup>2</sup>		(EN 1542)
<b>Reaction to fire</b>	Euroclass A1		

## APPLICATION INFORMATION

<b>Mixing ratio</b>	2.25 litres of water for 25 kg powder		
<b>Yield</b>	25 kg yields 11.5 litres.		
<b>Layer thickness</b>	20mm min. / 650mm max.		
<b>Ambient air temperature</b>	+5°C min. / +35°C max.		
<b>Substrate temperature</b>	+5°C min. / +35°C max.		
<b>Initial set time</b>	15 minutes		
<b>Final set time</b>	20 minutes		
<b>Application time</b>	10 minutes from start of mixing		

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER INFORMATION

Parex BBLUL 1515 is suitable for use in exposure classes: XO, XC4, XS3, XD3, XF1 and XA1 according to EN 206.

## IMPORTANT CONSIDERATIONS

- Application temperature range +5 to +35°C.
- Do not apply to substrates that are likely to be affected by freeze-thaw action.
- Substrate must be clean, sound and free of loose material.
- Active cracks should be made passive prior to application.
- Do not part mix.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

All excavation work and installation of shuttering must be completed prior to start of mixing. All formwork should be of adequate strength, treated with release agent and sealed to prevent leakage.

Sealing can be achieved by using Sikaflex® -11FC+ sealant beneath or around formwork and between joints. Ensure formwork includes outlets for extraction of the pre-soaking water.

Break out defective concrete to an appropriate profile. Surfaces must be sound, clean, free from ice, oils, grease, standing water and any loose or friable particles and any other surface contaminants. The concrete substrates should be pre-soaked with clean water continuously for 2 - 6 hours to ensure a saturated surface dry condition throughout the operation. Immediately before pouring grout, remove all excess or standing water from within any formwork, cavities or pockets.

### MIXING

Mixing should be undertaken using a pre-calibrated water measure and a purpose designed handheld paddle mixer such as Refina, or a pan type mixer such as CreteAngle or Rojo.

Mix Parex BBLUL 1515 in close proximity to the point of application.

Measure the appropriate amount of clean water and add into the a clean mixing vessel. Parex BBLUL

1515 should be added slowly whilst continuously mixing. Mix thoroughly for at least 90 seconds to produce a pourable, self-compacting concrete.

Once setting of the concrete has commenced, re-tamping or further mixing should not be attempted.

#### **APPLICATION**

Mixed Parex BBLUL 1515 should be placed onto the dampened prepared surface as soon as mixing is complete. Once placed, fully compact the concrete to obtain maximum strength development. The bed thickness applied in a single application should be between 20mm and 650mm.

#### **CURING TREATMENT**

No special curing is required at temperatures between +5°C and +35°C.

#### **CLEANING OF EQUIPMENT**

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

## **LOCAL RESTRICTIONS**

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## **LEGAL NOTES**

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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#### **Product Data Sheet**

Parex BBLUL 1515  
October 2022, Version 01.03  
020201010030000130

ParexBBLUL1515-en-GBPAREX-(10-2022)-1-3.pdf