# **Technical Data Sheet**

# **BluRez CSW**

WATER STOPPING POLYURETHANE RESIN



Bluey Technologies Pty Ltd ABN 36 115 613 646

PO Box 898, Hamilton QLD 4007 Australia Tel: + 61 7 3399 3635 Fax: + 61 7 3899 9822

## **DESCRIPTION**

BluRez CSW is a two component catalysed polyurethane liquid which requires only mixing with BluRez CSW - X to form a high foaming very fast setting water reactive injection resin.

#### **USES**

BluRez CSW is designed for stopping water seepage, consolidating loose rock formations, grouting for ground seepage, grouting in running water, sealing construction pits, embankments, dams, underpinning foundations, sealing structural cracks, retaining walls etc.

### **ADVANTAGES**

- Fast reacting, effective water stopping properties
- Excellent adhesion properties with both mineral and metallic surfaces
- Superb elastic properties that accommodate considerable movement between construction components
- Easy penetration into wet sand, giving high hardness
- Large volume, no shrinkage, makes it a very cost effective product

# **PREPARATION**

Evaluate joint or rock fissure for injection. Drill holes either side of the defect, sloping towards the defect at an angle of approximately 45°. The depth and distance from the crack will vary depending on water flow rates and site conditions. Insert packer at a depth which will allow resin to enter the defect without impediment. Consult Bluey for additional information.

# MIXING

Calculate the required volume of BluRez CSW - X to be combined with BluRez CSW within the range specified on this data sheet. Measure the required quantity and add the two components together. Mix together using a slow speed mixer (400rpm) for at least 3 minutes or until a uniform mixture is achieved.

### **APPLICATION**

Commence from the widest part of the crack or fissure and proceed injecting outwards along the crack or fissure in each direction. Turn on pump and slowly increase pressure to a maximum of 30 bar. Stop pumping for every litre injected and allow 1 - 2 minutes for reaction. Start and stop injection until the packer will no longer accept material or if the specified pressure has been reached. Move to the next packer and repeat injection process. Continue injection until crack is full and has been adequately sealed. Monitor the effectiveness of the work and allow to settle for 2 - 3 days before returning to site and completing additional injection if required.



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# bluey

## **PRODUCT DATA**

Packaging: 21kg kit (20kg BluRez CSW and 1kg BluRez CSW - X)

Ratio: 0% to 10% BluRez CSW - X addition

Reaction Data (Reaction Times of BluRez CSW and BluRez CSW - X):

Initial Temperature: 5°C 10°C 15°C 25°C

Initial Temperature:	5.0	10°C	15°C	25°C				
Reaction Times Measured with 5% BluRez CSW - X								
Start of Foaming	I0 sec	9 - 10 sec	9 - 10 sec	8 - 9 sec				
End of Foaming	56 sec	58 sec	47 sec	45 sec				
Foaming Factor*	35 - 50	35 - 50	35 - 50	35 - 50				

#### Reaction Times Measured with 10% BluRez CSW - X

Start of Foaming	10 - 11 sec	10 - 11 sec	9 sec	8 sec
End of Foaming	47 sec	45 sec	38 sec	32 sec
Foaming Factor*	35 - 50	35 - 50	35 - 50	35 - 50

<sup>\*</sup> The reaction is started by addition of 10% water to the fresh blend.

BluRez CSW	BluRez CSW - X		
1150kg/m³	950kg/m³		
Amber	Clear		
>121°C	107°C		
500cps	25cps		
	II50kg/m³ Amber >I21°C	1150kg/m <sup>3</sup>   950kg/m <sup>3</sup>     Amber   Clear     > 121°C   107°C	

Clean application equipment using polyurethane thinners

Flush clean thinners through all hoses and fittings for several minutes Empty the contaminated fluid and re-flush with a clean batch of thinners

for several minutes

Once again discard the contaminated fluid and fill the pump and hoses

with clean thinners until required for later use

Collect all discarded thinners for recycling and take care to avoid spillage

**Storage:** Store in dry conditions

Shelf life is 12 months

#### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative or the contractor is responsible for checking the suitability of products for their intended use.

Product properties are dependent upon seasonal and geographical criteria. Product properties and performance may vary between countries and locations within. We recommend that you clarify your specific requirements with your local Bluey representative to ensure that all specific project requirements are met.

# NOTE

Field service where provided, does not constitute supervisory responsibility. Suggestions made by Bluey Technologies Pty Ltd either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Bluey Technologies Pty Ltd are responsible for carrying out procedures appropriate to a specific application.

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