

BORE REVIVER



DESCRIPTION

BORE REVIVER covers both iron and calcium cleaning in-bore to remove calcium and iron deposits and sludge.

FEATURES

BORE REVIVER has been specifically formulated to contain NO Oxalic acids or oxalates, which are very poisonous to the environment and humans. BORE REVIVER is supplied in a concentrate liquid form, making it far more reactive than powdered or crystal products currently on the market for bore cleaning.

PROCEDURAL DETAILS

The quantities of BORE REVIVER products needed to clean a bore relates to the water volume, iron or calcium content in the bore and the time since the bore was last cleaned.

MAJOR CLEANS

This situation is when deposits in the bore are harder and have built up as a thick layer over a period of time. Sludge builds will have consolidated and will not be sloppy.

NORMAL CLEANS

This situation is when iron or calcium deposits are a surface or thin layer on the bore pipe surface and any sludges are sloppy.

PREVENTATIVE

In this situation there is just a covering of deposit on bore surface. Very little or no sludge is present. Full cleaning of the bore would have been done twice or more times a year.

Guide quantities for BORE REVIVER are listed on the table below, related to bore pipe diameters. Variables are iron and calcium content, amount of

hard deposits of iron and calcium and sludge components of calcium or iron respectively for cleaning either iron or calcium from a bore.

DIRECTIONS

Pour the calculated quantities of the selected product required to clean the bore down the bore opening. Recirculate water in the bore using bore pump for approximately 15 minutes. Recirculating will evenly distribute BORE REVIVER throughout bore.

If possible, recirculate water in the bore one or two more times within a 24 hour period.

24 hours after initial BORE REVIVER deposit, pump out the cleansed bore water to soil covered with a layer of lime. Hose down the insides of the bore casing while pumping out, to clean off any debris clinging to the sides of the bore casing.

PUMP

If there is no marked increase in flow from the pump after cleaning, remove the pump and check it for blockage build up. It is recommended this be done after any cleaning process of the bore. Sprinkler heads and spray tips may need cleaning. These can be soaked in either solution of BORE REVIVER. Do not leave metal components in contact with either product longer than is necessary to remove any build-up. A dilution of 2-3 times with water for either product may be more effective.

RECOMMENDATION

If time permits, it is advisable to allow the bore to fill and pump it out to waste or open ground pump it out to clear it properly of any minor residue.

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IDENTIFICATION
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ISSUE: JULY 2011
REF: BRRV

QUINDALUP HOLDINGS PTY LTD (A.C.N. 009 026 386) AS TRUSTEE FOR CALMARC FAMILY TRUST (ABN 18 340 289 669)

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BORE REVIVER



Pipe diameter litres of water/metre
BIOROBE volume/metre of water

Table 1

Product guide per metre of water			
Pipe dia.	H ₂ O/mtr	normal	major
4 inch	8 litres	700 mls	1.4 litres
5 inch	18 litres	1.6 litres	3.2 litres
6 inch	32 litres	2.8 litres	5.6 litres
7 inch	50 litres	4.4 litres	8.8 litres

BORE USE

Reconnect the piping to irrigation system and use as normal. A dose of BIOROBE, a safe, biocidal product, is added once a week to extend the flow life of the bore by killing any microbiological bacteria that accelerate iron and calcium deposits. Once added to the bore, BIOROBE does not need to be specifically pumped out of the bore. Normal irrigation can continue. A guide to BIOROBE additions can be seen in the table above:

POTABLE WATER

For water from treated cleaned bores (using Calmarc Chemical's BORE REVIVER) which will be used for potable water supply, do not add the BIOROBE. Bores used for potable water supply are best cleaned 1-2 times annually with full pumpout of the refill water 2-3 times. The pH of the potable water should be 6-7 for use by humans. Testing for pH can be done either using a pH meter or pH paper strips covering a range from 4 to 7 (Calmarc supply these on request).

CALCULATING BORE REVIVER QUANTITY

Quantities of BORE REVIVER is directly related to the amount of water in the bore. Firstly determine the metres of water in the bore. Multiply the per

metre amount to obtain the minimum quantity of material required to clean the bore.

EXAMPLE:

1. Refer to table 1 and from the 102mm (4 inch) line, using a NORMAL clean for the example.
2. The amount of BORE REVIVER required per metre of water in a 102mm (4 inch) diameter casing is 0.7 litres.
3. Amount of BORE REVIVER for 28 metres of water is $28 \times 0.7 = 19.6$ litres.
4. This example illustrates 20 litres of either BORE REVIVER is necessary to carry out a normal clean for iron or calcium respectively. These calculations are a guide and amounts can vary according to the individual situation of the bore.

SAFETY

Wear rubber gloves, eye goggles, overalls and safety boots. Wear a face mask with absorbent cartridges if vapours are apparent.

Mask or keep BORE REVIVER products away from metals, timber and concrete and when clean, clay bricks or granite. LIQUID MASK or plastic sheeting is suitable for this purpose.

SWALLOWED: Drink water or milk. Do not induce vomiting.

INHALED: Remove to fresh air.

SKIN: Wash off with water followed by soap and water.

EYES: Wash off with copious quantities of water for 15 minutes.

Seek medical advice in all cases.

STORAGE

Store both BORE REVIVER and BIOROBE products in a cool area, between 5-30°C under cover and away from other chemicals or foodstuffs.

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BORE REVIVER



PACK SIZES

BORE REVIVER products are sold in packs of 20 and 200 litres, BIOROBE is sold in packs of 20ltrs.

TRANSPORT

UN No1760, CLASS 8, SUBCLASS NONE, HAZCHEM 2R, PACKAGING GROUP III, IERG. No. 37.

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