KORTECH INC.

 BASE STABILIZATION & DUST CONTROL

##### Calcium Chloride Brine

Grade W1.32 & MG30

Many municipalities and industrial users of roadways experience extensive maintenance costs due to poor road conditions.

These adverse road conditions are usually as a result of heavy traffic over roadways that lack sufficient base stabilization materials and are subjected to severe freeze thaw cycles.

Proper use of *W1.32* will keep dust to a minimum, lower maintain costs and preserve gravel in place.

It is our intent to guide our customers in the use of our products in order to get the best value for the capital employed.

### Step#1

Evaluate the road conditions.

Possible scenarios:

Hard packed clays.

#### Loose sandy aggregate surface, low clays

Soft base, rutted & potholes

Step#2

Preparation of roadway and application

a) Scarify surface at a minimum 3” to 4” with disker or sandvic blades. Opening up the base to a deeper level may be necessary if the specific section is in poor condition.

b) Apply fresh water to a dry surface to prewet aggregate at ½ litre per square meter.

c) Blade water treated surface to get proper mixing.

d) Work aggregate back and forth in window as *W1.32* is applied at a rate of 1 litre per square meter on each pass. Run 2 more passes to total 3 litres per square meter. Additional applications may be necessary if conditions are severe.

d) Follow with disker or pulvy mixer to get effective dispersion.

e)Follow disker or pulvy mixers with graders and wobbly packers to get desired densities.

f) When desired packing is attained top shoot with *W1.32* at ½ litre per square meter.

It is suggested that when *W1.32* is applied on the roadway that the wind rows of aggregate are in place at both sides in order to avoid any run off during application or in the event of a rupture of lines on the applicator unit.

Use of packers should be continued until the surface is smooth and will not be disturbed when traffic passes. The surface should be dust free and as a result, little or no runoff of chlorides will occur during rainstorms.

Should the surface become unconsolidated and dusty after a period of time it is suggested that STEP #2 be repeated with addition rates of ½ to 1 litre per square meter. Water may be substituted in this case.

## Page 2…

Caution

DO NOT APPLY Calcium Chloride Brine *W1.32* to hard packed roadways without proper surface preparation.

DO NOT APPLY *W1.32* on roadways with little or no gravel. Highly dangerous slippery conditions will prevail when rain occurs.

DO NOT OVER APPLY *W1.32* as it will result in unsafe driving conditions and create an undesirable environmental condition.

DO NOT USE A VIBRATOR PACKER. Sheep’s foot packers are acceptable if followed with wobblies.

The keys to attaining best results are the evaluation of the aggregate and base conditions of the roadway plus handling of the same. In many cases it may be necessary to incorporate additional gravel.

It is strongly suggested that this program be followed as it is our concern that application on roadways without due care may result in undesirable runoffs into other areas. *W1.32* Calcium Chloride Brine is nontoxic but may cause some retardation in growth of sensitive vegetation. Kortech suggests that MG30 be substituted where clay levels in the roadway aggregate are low and this aggregate is either silty or sandy.

Kortech Inc. suggests that qualified supervisory engineering staff be retained to supervise the application of our products. Please call us for the list of qualified contacts.

Kortech Inc. makes these suggestions in good faith and takes no responsibility or liability for any road conditions where our products may be applied. We only make warrantees that our products meet our specifications as detailed in our data. sheets.

**Kortech Inc.** 9915 – 65 Ave. NW Edmonton, AB T6E 0L1

**Phone** 780-499-6633 Toll Free 1-877-780-2244

**Email** **info@kortech.ca**

[www.kortech.ca](http://www.wardchem.com)