#### "SUGGESTIONS FOR USING PORTLAND CEMENT.

Sep the cement perfectly dry until by to use it in mortar.

dry, clean, sharp sand, and use the Imount that will fill the voids. Ining the percentage of sand reduces Grength and slows the setting. Wet only so much mortar at one time as can used before setting commences.

to not permit the finished work to dry r quickly; after it has commenced to aiden cover with wet sand or burlaps and seep wet for a fortnight. Concrete ditches. maes, and reservoirs should be washed wer with a thin cement, grouting as fast as built. After the mortal has set a day or wo, it is well to flood it and keep the water standing stagnant a fortnight.

If the finished work cannot be kept covered as above, keep wetting it by daily sprinkling. Water is the life of Portland cement mo. tar.

When concrete is laid in large bodies, it is allowable to imbed irregularly throughout its mass as many large stones as is onsistent with their being well bonded tother by the mortar.

In concrete it is desirable that the agregates should be graduated in size; then y pack closer and require less cement o fill the voids. The stone should angular, and free from dust-

illy mix lime with cement; it tends , the mortar crack.

a masonary the stone or brick should thoroughly wet before laying.

In sidewalks, as fast as the concrete is

tamped to a surface the top coat should be spread on, in order to bond the two layers

Ordinarily lampblack injures cement mortar, mineral colours do not; sienna, Prince's metallic, Venetian red, Prussian blue, ground coal, or oxide of manganese a. 2 good.

A correspondent sends to the "Builder" an interesting account of some remarkable deposits of petrified wood existing in one of the rivers in South Russia. The deposit consists of a quantity of calcined oak lying in the bed of the river in layers three or four feet deep, and extending over an area of some 150 miles. A main featurewhich, indeed, constitutes the chief value of this specific hardwood-is as variety of colours. No fewer than twelve shades in pink, blue, yellow and that known as American walnut have been found. This peculiar formation would seem to have been caused by the variegated character of the soil at the bottom of the river.

Vencered board made of tightly matched strips 1/2 x 3 inches, glue-laid to the size required and veneered with heady strawboard, is now used for partitions, dry packages and other uses not requiring any exposure. It has a smooth surface and is capable of taking any ornamentation desired. For ceilings, partitions or work of that class it has been found to be a very serviceable article.

### **Paying Granite**

Granite Sets for Street Paying. — CURBING cut to any shape ordered. — Pine Rich Colors fo Building and Monumental Purposes.

Quarries, St. Phillipe d'Argenteuil, P.Q.

Address all communications to

JOS. BRUNET - COTE DES MEIGES, MONTREAL



# BRAND

HIGHEST CLAS? PORTLAND CEMENT

McGILL UNIVERSITY TESTS, 1898: Fineness:-residue on 100 sieve, Tensile strength: neat: 7 days, 629 lb.

OF ALL FIRST CLASS DEALERS.



#### "HEIDELBERG Brand

(formerly "Schifferdecker")

Highest Class Portland Cement.

Very finely ground. Output 1900-one million barrels. Used extensively in construction of the Chaudiere Dam.

. . . OF ALL FIRST-CLASS DEALERS

### OWNSHIP DEBENTURES WANTED Highest Market Prices paid for Township and other Bonds by The Central Canada Loan & Saving Co'y Cor. King & Victoria Sta

## E.AMES & CO.

BANKERS. 18 King Street Last, TORONTO.

**Buy and Sell** GOVERNMENT, RAILROAD and

MUNICIPAL SECURITIES.

## **BEATTY & SONS**

WELLAND, ONT.

redges, Ditchers, Derricks and Steam Shovels

various styles and sizes to suit any work.

Submarine Rock Drilling Machinery, isting Engines, Suspension Cableways, rse-Power Hoisters, Gang Stone Saws, strifugal Pumps for Water, Sand and Mining, and other Contractors ut.

## LEHIGH" PORTLAND CEMENT

Capacity, 4,000 Barrels every day in the year.

For Sidewalks and all other work requiring the highest quality Portland Cement. Used by the U.S. Government and the largest contractors and users of Portland Cements in the United States.

Absolutely the most popular cement in Canada on account of its merits. For prices, etc., address

J. WATTERSON & CO., 45 Common St., Montreal, Que. THORN CEMENT CO.,

112-118 Church St., Buffalo, N. Y.

# The KERR ENGINE COMPANY, Limited

PUMPING MACHINERY HYDRANTS and VALVES Are our Specialty

Don't fail to write us for Catalogue and prices.

