http://www.powerplantsupplyco.com

Powerblanket for winter construction in Canada

POWERBLANKET PROTECTION

TANKS::WELLHEADS::MANIFOLDS::DRUMS
BUCKETS::IBC TOTES::PUMPS:: PIPELINES
HOSES:: FLOW LINES:: GAS CYLINDERS
EQUIPMENT::ENGINES::MATERIAL
FRAC TANKS::THAW FROZEN GROUND
CURE CONCRETE:: HEAT ROOFING MATERIAL

HEAT :: THAW :: CURE

Winter construction is an accepted fact in all parts of Canada. It is not new and much valuable experience has been accumulated over the years by contractors and sub-contractors. This experience, combined with new techniques and new products such as **Powerblanket ground thawing and concrete curing blankets** has led to improved changes in winter building. Powerblanket is distributed in Canada by Power Plant Supply Co contacts at: http://www.powerplantsupplyco.com/contacts.php

Winter construction is carried on under conditions that vary over different parts of Canada. In the Atlantic Provinces, for example, the mean daily minimum temperature in January is +10°F. Storms with heavy snow or rain and high winds are common. In southern Quebec and Ontario, minimum temperatures vary from O°F in Quebec, Montreal and Ottawa to +15°F around Lake Erie. Storms are less frequent than along the coast, and although some areas near the Great Lakes receive heavy snowfall, precipitation is generally less and wind speeds lower than on the Atlantic Coast.

In the Prairie Provinces, the mean daily minimum temperature is -10°F in January and the average winter snowfall amounts to 40 inches. Although blizzards accompanied by high winds, low temperatures, and snow or drifting snow occur at intervals during the winter, there are only three days in January when precipitation amounts to 0.1 inch or more, and the hours of sunshine in the same period are the highest in Canada. Long periods of below-zero weather are not uncommon. In British Columbia, minimum temperatures vary from 10 degrees inland to 30 degrees along the coast. Precipitation is heavy, occurring mainly as snow in the mountains and as rain on the lower mainland and Vancouver Island. There is little sunshine, and precipitation amounting to 0.1 inch or more occurs, on the average, for more than 15 days along the Pacific Coast in January.

Excavation in deeply frozen ground is expensive. Powerblanket Thawing blankets http://www.powerplantblanket.com will help reduce this cost by thawing 18”- 20” overnight, making ground breaking more achievable. As soon as an excavation is made, steps must be taken to prevent frost getting into the ground. Heated PowerBlanket covers may be used to protect footings after they are placed. Powerblankets may be re-used many times over on other projects. They store easily and may be handled by one or two crew members.

Protection for concrete during concrete placing and curing is essential in any region where temperatures below freezing are expected. Good practice requires that the concrete be warm when placed and that it be **kept above freezing** until it as gained sufficient strength to prevent damage when frozen. Concrete which has attained **strength of 500 psi** is considered past the danger stage, although it is still not capable of withstanding repeated cycles of freezing and thawing. Every effort should be made to keep the temperature of the concrete during the initial curing period as close as possible to the **minimum curing temperatures**. As given in the American Concrete Institute's "Recommended Practice for Winter Concreting", these temperatures are **70 degrees for three days or 50 degrees for five days**.

Concrete which is not allowed to freeze and which is placed and cured at controlled temperatures develops higher ultimate strength and greater durability.

It is also advisable to require bricks and mortar be warm when laid and masonry be protected from freezing for 48 hours.

Powerblanket Shelters

The great advantage of using a Powerblanket shelter, is to enclose all or a portion of materials that are used at a construction site. These mobile shelters fit over standard pallets and shelter and pallet may be lifted close to the site where the temperature sensitive materials are needed during the day or used to store materials overnight. See http://www.powerplantblanket.com/products.php?prod_id=87

Call Power Plant Supply Co for details and product selection

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