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PRODUCT INFORMATION

CURE-WELL



CONCRETE CURING COMPOUND

PRODUCT IMPORTANCE :

Not only the correct composition and preparation of concrete is important, but also the after treatment, which is one of the deciding factors with regard to quality. In case of insufficient after treatment, the required moisture escapes too quickly especially from the surface. (Known as the thirst of concrete.)

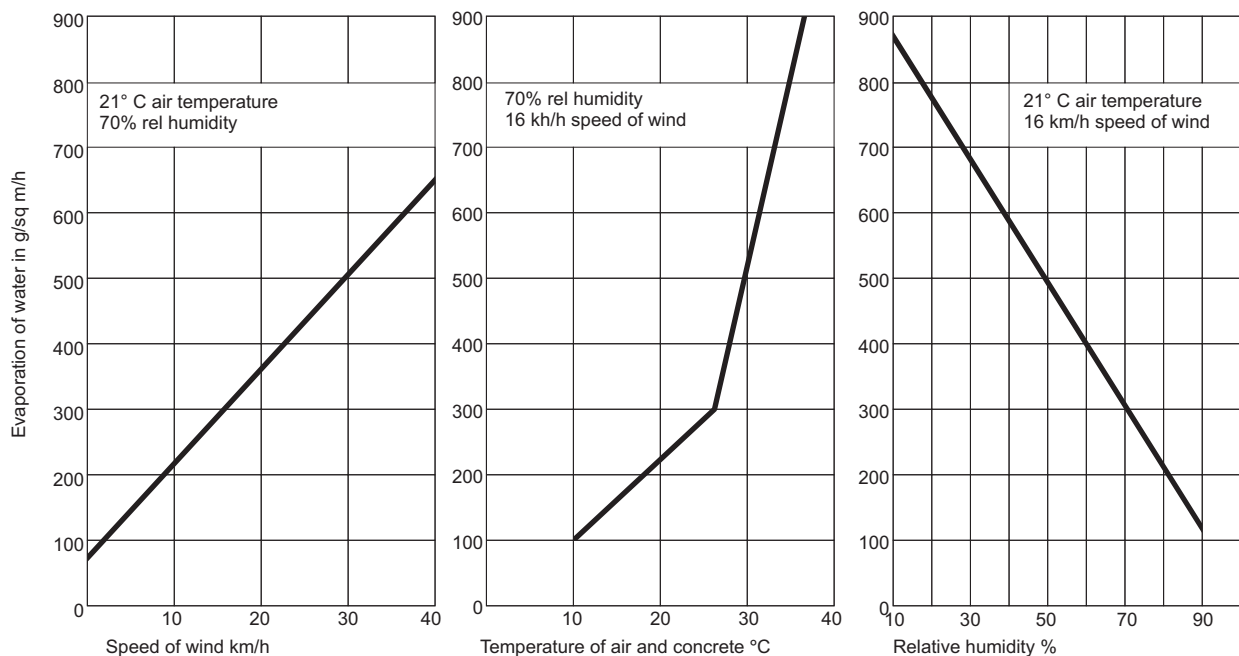
The negative results are as follows :

Insufficient development of strength, silting and chipping off on the surface, and crack formation.

These symptoms appear especially at higher temperatures. In cases of low humidity and draughts. These factors may also greatly increase the speed of evaporation.

This is illustrated by the following charts.

water evaporation curves according to Lerch



Influence of the wind :

If the speed of the wind rises from 0 to 15 Km/h, the water in the concrete evaporates three times faster. If the speed of the wind rises from 0 to 40 Km/h, the rate of evaporation increases six times.

Influence of air temperature :

If the temperature in the air/in the concrete rises from 10° to 25 °C, the water in the concrete evaporates three times as fast. If the temperature rises from 10 °C to 30 °C, the speed of evaporation increases four or fivefolds.

Influence of the humidity of the air :

If the relative humidity drops from 90% to 50%, the rate of evaporation increases by 400%. If the relative humidity drops to 40%, the rate of evaporation increases by approx 500%.

PRODUCT :

CURE-WELL concrete curing compound is a membrane forming white emulsions of traditional reactive resins which on spraying to the fresh concrete surface forms an impermeable skin of resin over the concrete surface and imparts protection to undesirable effects associated with too rapid evaporation of surface moisture. The resin film on weathering gradually disintegrates leaving a stain-free surface. It complies with the requirements of ASTM C-309, type-I,, and BS (M.O.P.B.W.201).

PROPERTIES :

Appearance : White liquid (or gray on request)
Specific Gravity : 0.99 at 20° C.
Open Flash Point : More than 93°C.
Freezing Point : 0°C.
Viscosity : less than 10 cP at 20°C.
(ostwald)

ADVANTAGES :

- * **Protects fresh concrete against untimely drying out– against a “burning” of the fresh concrete surface which are exposed to strong solar radiation.**
- * **Largely prevents shrinkage cracks and other damage to the concrete caused by rapid drying -out.**
- * **Provides a labour saving method of curing concrete, without the use of ponding techniques or the continuous wetting of hession stretched over the concrete surface. It saves the trouble of keeping the concrete wet during the first few weeks after fabrication.**
- * **When used in accordance with instructions, the evaporation protection membranes disintegrate and flake off from the concrete surface in about two month or so depending upon prevailing atmosphere conditions. An over dosage will increase the time factor of disintegration.**
- * **A single application only is required.**
- * **As the product is water based no special precautions are required for handling, storage or application.**

- * **Equipment may be cleaned with water, as such there is no need of solvent cleaners.**

APPLICATION :

CURE-WELL CURING MEMBRANES are ready to use liquid compound which should not be diluted with water or solvent it should be sprayed on to the concrete surface as soon as the free surface water has disappeared from the horizontal surfaces. A smoothly troweled surface requires less compound than a rough surface, such as that of pneumatically applied mortar. The sealing compound is applied in one coat by spraying. To insure thorough and complete coverage, approximately one-half of the compound for a given area should be applied by moving the spray gun back and forth in one direction, and the remainder at right angle to this direction.

The curing compound should not be sprayed on to surface dry concrete, otherwise the normal mechanism of degradation will be seriously impaired which may result in staining, therefore in some instance where the concrete has lost some of its “greenness” it is essential to dampen the surface with water. Also it should not be sprayed on to concrete which has free standing water on it. Special care should be taken with formed concrete to see that edges, corners, and rough spots are well covered with compound. The compound should be applied before any pathching is done.

COVERAGE :

5.5 to 6.0 square meter per liter (200-300 sq.ft per gallon). It is essential not to apply the coating too thickly. While spraying, the distance between the spraying device and the surface of the concrete should be approx. 1 m. Thus a uniform coating is guaranteed. Make sure that the spraying is properly carried out.

PACKING :

CURE-WELL CURING COMPOUND is supplied in 210 liters, free non-returnable containers.

PRICE, PERIOD OF DELIVERY AND TERMS OF BUSINESS ON REQUEST
MANUFACTURED BY

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