



COLD WEATHER TECHNICAL BULLETIN: HYDROWRAP PUMA FLASHING

HYDROWRAP PUMA FLASHING is a rapid-setting, flexible flashing system designed for use in a wide range of conditions. In cold weather applications, understanding the relationship between ambient temperature and set times is critical to ensuring proper installation and long-term performance.

This guide provides information on expected set times in cold conditions and outlines best practices for application.

WHEN SHOULD YOU BE CONCERNED ABOUT COLD WEATHER?

American Concrete Institute ACI 306 defines cold weather when the following conditions exist for three consecutive days:

- The average daily temperature falls below 40° F (4° C)
- Air temperature does not rise above 50° F (10° C) for more than half a day in any 24-hour period.
- And temperature at time of application (Air, Material or Substrate) is below 40° F (4° C).

WHAT HAPPENS WHEN THE TEMPERATURE GETS COLD?

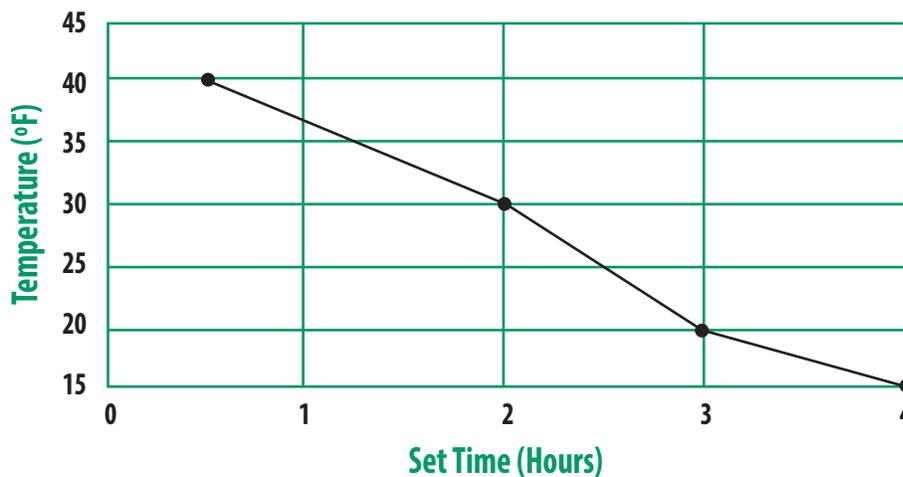
Cold weather dramatically slows the curing rate of the HYDROWRAP primers and HYDROWRAP PUMA FLASHING, extending the time required for the material to set before waterproofing can be applied.

The chart below provides approximate guidance on set times (time to topcoat) at various temperatures. Temperatures shown apply to the flashing material, ambient air, and the concrete substrate.

Note: Concrete substrate temperature typically lags 10° – 15° F (5.5° - 8.30°-C) behind ambient air temperature. The bulk substrate temperature has the greatest effect on final set time.

Set times are approximate and provided only as guidance. Many factors affect cure times in the field. Always confirm that the flashing has fully set before overcoating.

HYDROWRAP PUMA FLASHING Set Times





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COLD WEATHER APPLICATION GUIDELINES

Substrate Preparation - Ensure the substrate is clean, dry, and free of frost, ice, or snow. Protect the substrate from condensation during cold morning hours. Pre-warm the substrate, if possible, using indirect heat sources such as heated enclosures. Maintain adequate ventilation when using temporary enclosures.

Material Storage - Store HYDROWRAP PUMA FLASHING in a heated area [60 – 75° F (16° - 24° C)] until immediately prior to use. Keep catalyst, resins, and fleece (if required) protected from freezing.

Application Techniques - Substrate temperature will lag behind the ambient temperature which will delay cure time, if the substrate is not pre-warmed. At lower temperatures, expect extended open times and delayed cure/set times.

Mix components in a temperature-controlled environment when possible. Do not delay installation once mixed.

Do not apply if ambient or substrate temperature is below 15° F (-9° C). Do not exceed the recommended catalyst dosage in an attempt to accelerate curing. Excess catalyst will result in improper curing and poor performance. If this occurs, complete removal and mechanical surface preparation are required before reinstallation to ensure the substrate is free of defective material.



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