

Technical Bulletin

010106-TB

How seasonal temperatures affect *Kerapoxy*[®]

Frequently Asked Questions

How is *Kerapoxy* affected in the winter months?

Storage:

MAPEI's *Kerapoxy* components are freeze/thaw-stable. In general, *Kerapoxy* components should be stored in heated conditions at room temperature (73°F [23°C]). MAPEI makes every effort to maintain the recommended storage temperature for *Kerapoxy* containers. However, if containers are exposed to temperatures below 32°F (0°C) during transport or storage, *Kerapoxy* components may exhibit signs of crystallization or stiffness after they return to room temperature.

During the winter and cold months, examine the product before use by opening the container and checking for signs of crystallization or stiffness. Stir "Part A" (the colored material and aggregate) with a margin trowel. If small "ice-like" particles are visible, the entire kit (unmixed) should be soaked in warm water (about 120°F [49°C]) for about 20 minutes. Then the product should be mixed as usual per the instructions included in the bucket.

Use:

Temperature dramatically affects the working characteristics of *Kerapoxy*. Containers should be allowed to acclimate to room temperature (73°F [23°C]) at least 24 hours before product use. Lower temperatures will produce a thicker consistency, which will assist in vertical applications and extend the pot life. Lower temperatures also will extend the setup time and the time before foot traffic should be permitted.

For these reasons, the ambient temperature and surface temperature should remain between 60°F (16°C) and 90°F (32°C) until the material has hardened sufficiently (24 to 72 hours). The working time of *Kerapoxy* at 73°F (23°C), which is the optimum performance temperature, is about 45 to 60 minutes.



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What about in the summer months?

Storage:

It is not a requirement to protect *Kerapoxy* containers from extreme heat. However, during the summer and hot months, it is best to store containers in a climate-controlled area at room temperature (73°F [23°C]).

Use:

Epoxy materials become thinner at higher temperatures. Therefore, warm conditions will produce a creamy consistency as well as improving the spreadability and cleanability of *Kerapoxy*.

The increased fluidity of the material may create issues, however, when installing *Kerapoxy* in vertical applications. Very warm temperatures, over 90°F (32°C), will rapidly accelerate the chemical reaction. This will reduce the product's pot life and setup time, which can make the application and cleanup difficult.

