



The Chemical Company

**Cold Weather Application of MasterSeal® Sealants:
NP1 NP2 SL1 SL2 TX1 NP100 NP150 CR125 CR195**

Good practice dictates that sealant installations be carried out at 40° F (4° C) and above, in order to ensure proper cure and joints free of condensation and frost. BASF considers it acceptable to apply its one and two part elastomeric sealants in temperatures as low as 20° F (-7° C), if the following factors are taken into consideration:

1. **Substrates.** During cold weather there is a greater chance for moisture to be present on the joint faces. This can be in the form of dew, frost, or condensation. It is important the substrate be completely dry prior to sealant application.
2. **Viscosity.** The viscosity of the sealant increases as the temperature decreases. For application ease, we recommend the material be pre-warmed prior to use. Heated storage or use of a hot box at the job site is recommended.
3. **Curing.** At normal conditions, the sealant will develop a skin within 24 hours of application. Low temperatures will extend curing times considerably; the joint must be protected from trade damage and environmental contamination (dirt, dust, etc.) while curing.
4. **Two-part Sealants.** NP2 and SL2 should be kept in a heated area prior to mixing. Accelerator is available which decreases the pot life and speeds up the initial cure of these sealants. One or two accelerator packs may be used, depending on the temperature.
5. **MasterSeal NP150.** This product will remain more workable at lower temperatures than the Polyurethane sealants. MasterSeal NP150 can be gunned, tooled, and will cure at temperatures down to 0° F (-18° C). Cure times will be greatly affected, however. Substrates must still meet the same conditions as detailed above.

Successful low temperature sealant application is possible if careful attention is paid to the preparation and installation process. If the above criteria is heeded, one may apply polyurethane sealants in temperatures as low as 20° F. If you have any other questions, please contact this office.

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