

*NA Technical Center
30 Endicott Street
Danvers, MA 01923
Telephone: 978-777-1100
Toll Free: 800-626-7226*

TO: ALL ITW POLYMER ADHESIVES, NA CUSTOMERS & PARTNERS
FROM: PETER CARBUTT, TECHNOLOGY MANAGER
SUBJECT: FREEZING CONCERNS ASSOCIATED WITH PLEXUS® ADHESIVES
DATE: SEPTEMBER 01, 2014
CC: FILE

As we come into fall and winter, we start to see material arrive at our distributors and direct customers after being exposed to cool temperature during transit. When some of these adhesives are stored at or below 32°F for an extended period of time, their viscosity will begin to increase significantly and some case appear solid like. This phenomenon is completely reversible and the final product 100%. However, this may be problematic for mixing and dispensing if used in this condition or until the material is allowed to recover.

WHAT TO LOOK FOR:

- ❑ An adhesive that has been stored cold for a long period will be:
 - Thicker than normal and/or
 - Have a “cottage cheese” like appearance

WHAT TO DO:

- ❑ Allow the adhesive to reach room temperature (approximately 73°F / 23°C) by storing it in a warmer area of the building long enough before using.
- ❑ It takes a relatively long time for large quantities of adhesive to freeze. It will take an equal amount of time for the adhesive to reach room temperature.
 - Approximately 1-2 days for 380 ml cartridges
 - Approximately 4-5 days for 5-gallon pails
 - Approximately 7-10 days for 50-gallon drums
- ❑ Remember the material will warm from the outside in. Be sure the middle of the package has also reached the same temperature as the outer side.

WHAT NOT TO DO:

- ❑ Do not try to heat the adhesive by placing it in an oven or placing band heaters around the perimeter of 50-gallon drums. This will harm the adhesive close to the wall of the container.

NOTE: If additional information is needed please feel free to contact: ITW Polymers Adhesives NA Technical Service at 855-489-7262