

THE NEWSLETTER OF
THE BALTIMORE
WASHINGTON DC
CHAPTER OF ICRI

4TH QUARTER 2021

THE AGGREGATE

• PRESIDENT'S MESSAGE
• SAFETY & LEGAL
• 2021 AWARD WINNERS

CHAPTER CALENDAR

NOVEMBER 11, 2021
4th Quarter Dinner Mtg
& Awards Presentations
Hotel at College Park

DECEMBER 2, 2021
2021 Fall Tech Seminar
CP&R's Office

MESSAGE FROM OUR PRESIDENT BRIAN RADIGAN - *TREMCO COMMERCIAL SEALANTS*



I simply cannot believe how close we are to the end of the year. As I write this, we are less than two months away from the year 2022. It looks as if some brighter days are ahead of us as more and more in-person activities begin to become more commonplace. Over the last few months, we've seen schools reopen for in-person learning along with more face-to-face business activities be accepted as well. As expected, it will be a slow crawl back to normal, but I am energized at the notion local Chapter events will be a frequent occurrence. I am excited to see you all again very soon.

The Board wants to thank everyone who attended the 30th Annual Golf Outing at Waverly Woods. The Golf Committee once again flawlessly executed one of the Outings we have had to date. I want to personally thank Taylor Crampton of CP&R and Brian Baker from PPSI as well as all the volunteers for their efforts and time to make this tournament a success.

Our 3rd Quarter Dinner Meeting at Maggiano's was a success as well. We hosted about 65 individuals for the first time in over a year. It was great to be among friends again. Drinks and family-style dinner were heartily consumed while Paul Shelton from Alchemco gave a fantastic presentation on waterproofing materials. I would like to thank Brian Baker again for his efforts in putting this together.

A few updates on our upcoming scheduled events:

- Our 4th Quarter Dinner Meeting will be held at the Hotel at College Park on November 11th, 2021. Awards for the Outstanding Repair Project contest will be presented at this event.
- Scholarship Applications were received and the Board will be letting the applicants know if they received a scholarship. Thank-you Dominic Huey for your hard work.
- Our Fall Technical Seminar will once again be in-person. It will be on Thursday December 2nd, 2021 at CP&R's office. More details to come in a forthcoming email.

I am thankful that we are getting closer to a normal way of life in the area. I am also continually humbled by the support of our Chapter members in these unprecedented times. The Board and I thank you for your patronage and look forward to better time ahead with you all.

Please feel free to contact me at bradigan@tremcoinc.com with any comments and suggestions for the remainder of the year.

Brian

EXECUTIVE ORDER 14042: COVID-19 VACCINATION MANDATE FOR FEDERAL CONTRACTORS

by Kenneth K. Sorteberg, Esquire

President Biden's Executive Order 14042 imposes a COVID-19 vaccination requirement on federal contractors and subcontractors. Covered employees must be fully vaccinated no later than December 8, 2021. People are considered fully vaccinated two weeks after they have received the second dose in a two-dose series, or two weeks after they have received a single-dose vaccine. The definition of covered employees is broad.

According to the Safer Federal Workforce Task Force COVID-19 Workplace Safety publication entitled *Guidance for Federal Contractors and Subcontractors* <https://www.saferfederalworkforce.gov/new/> which was issued on September 24, 2021, the new requirement must be included in all new contracts awarded after November 14, 2021. The new requirement does not apply to existing contracts, except at a point where a contract option is exercised or an extension is made, and at that point the new requirement becomes applicable.

See excerpt below from the **Guidance for Federal Contractors and Subcontractors**:

FAQ 12: By when must the requirements of the order be reflected in contracts?

A 12: Section 6 of the order lays out a phase-in of the requirements for covered contracts as follows:

- Contracts awarded prior to October 15 where performance is ongoing – the requirements must be incorporated at the point at which an option is exercised or an extension is made.
- New contracts – the requirements must be incorporated into contracts awarded on or after November 14. Between October 15 and November 14, agencies must include the clause in the solicitation and are encouraged to include the clause in contracts awarded during this time period but are not required to do so unless the solicitation for such contract was issued on or after October 15.

Please feel free to contact Ken Sorteberg at sorteberg@constructionlaw.com with any questions or suggestions for future Legal Columns. Mr. Sorteberg is a civil engineer and an attorney (licensed in MD and DC) who focuses his practice on construction law.



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SANITATION CONDITIONS ON THE JOBSITE

Working on jobsites with limited or no access to facilities requires some additional planning in order to provide the required sanitary service for your employees. Consider the following when pre-planning for site conditions:

Drinking Water: An adequate supply of potable (safe to drink) water must be provided for employees. These days, you see people bringing their own water to work everywhere you look, which represents a change from the water fountain or cooler that used to be more prevalent. However, even if your workers are following the same trend of supplying their own water, this does not negate the contractor's obligation to provide clean drinking water. In other words, if an OSHA inspector asks where to find drinking water on your worksite, responding that your workers bring their own is not a good answer!

Toilet Facilities: Every jobsite needs at least one toilet facility. If there are more than 20 employees and less than 200 on the jobsite, the required ratio is one toilet and one urinal required per 40 employees. At 200 employees, the ratio changes to one toilet and one urinal per 50 employees. These facilities must be maintained and if a portable "outhouse" facility is used, be sure to schedule regular flushing/pumping from the service company. As an inspector, I do check the bathrooms and I will report back if they are not up to standard.

Washing Facilities: For employees who handle chemicals, paints, concrete, poisonous plants or any other materials that could be considered a contaminant, the employer shall provide washing facilities. This piece of the puzzle is missing on more jobsites than any other elements. It is important that managers encourage their employees to clean up as needed, and in particular, before handling food items. It is very easy to ingest something you shouldn't by handling food without washing first. An easy and inexpensive solution to providing a wash station could be as simple as a 5 gallon bucket, soap and towels. It should not be hard for most of you in the construction industry to be creative.

Other parts of the sanitation standard for construction include:

- Designated eating and drinking areas away from contaminants and outside of contaminated areas.
- Vermin Control to exterminate rodents, insects, and other vermin, if detected.
- Changing rooms with storage facilities for employee's street clothes, if they are required to wear protective clothing at work.
- Showers, when required by other specific OSHA standards.

In planning for site conditions, it is important not to overlook the sanitation needs of your workers.

David Caple, COHC, CEAS

Construction Safety and Health Specialist, is the Principal Member of Pinnacle Safety Network, LLC. He has over 15 years experience in a combination of structural restoration and safety.



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BEST PRACTICES FOR COLD WEATHER SEALANT APPLICATION

By Michael Prizzi



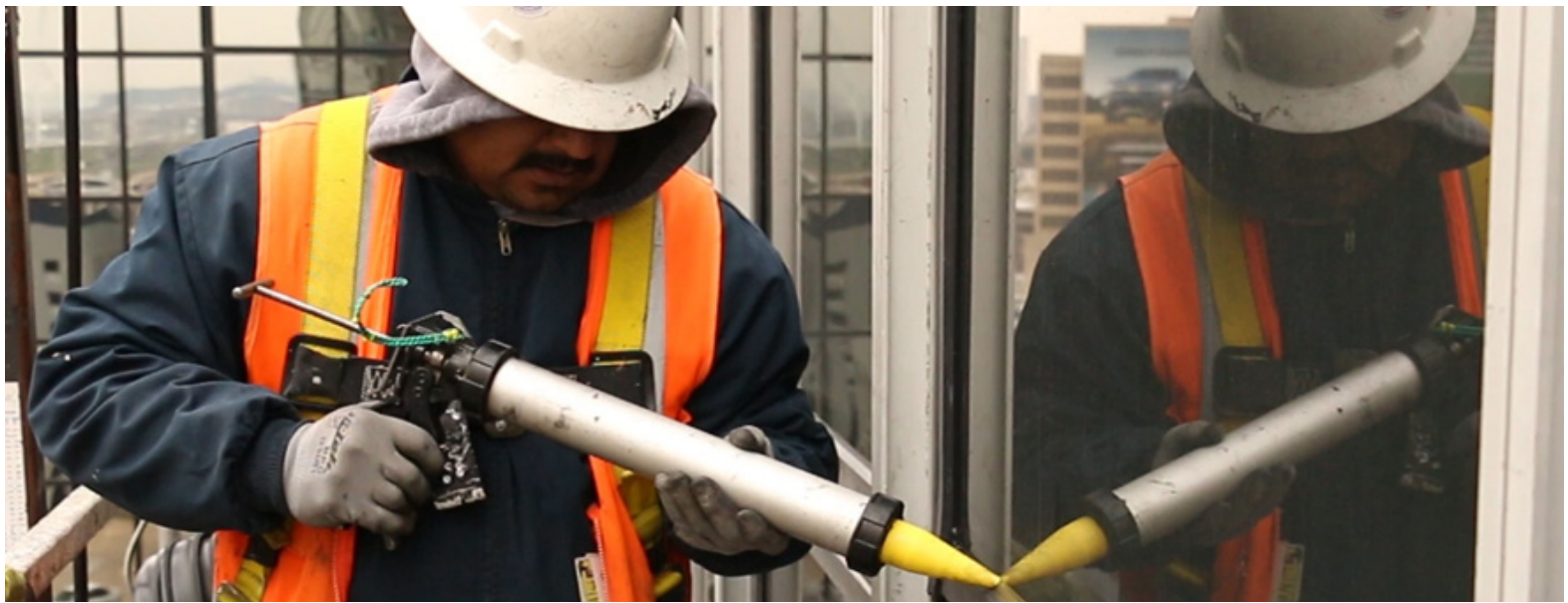
Winter is here. Building owners and design professionals want their projects sealed tight with no leaks and no loss of costly heat. Days are growing shorter. Temperatures are above freezing during the day and may fall below freezing at night. What is a conscientious caulking contractor to do?

First and foremost, the contractor must be in good communication with the owner and/or design professional informing them that this is a critical time of year for sealant application. Why? Heading into the cold weather months temperature extremes during a 24-hour period are at their greatest. With extreme shifts in temperature over a short period of time comes a greater amount of movement in the substrate over a short period of time. This potential for a large amount of movement puts the most stress on a curing sealant before it cures to full strength. The most critical time for a sealant, to ensure long-term performance, occurs during the sealant curing process. However, care must also be taken to ensure that when fully cured, the sealant is able

to perform when exposed to the extreme high temperatures of summer.

What can be done to reduce the stress placed on the sealant during the curing process in colder weather keeping in mind that eventually the sealant will be exposed to extreme heat conditions in summer months? Proper sealant selection is critical. There are 3 criteria that should be reviewed when choosing a sealant for cold weather applications. The 3 criteria are movement capability, cure speed, and cold weather installation ease. It is always better to use a sealant that has joint movement capability greater than the theoretical joint movement design. If theoretical design is $\pm 15\%$, use a sealant with movement of $\pm 25\%$ or greater. If theoretical design movement is $+50/25\%$, use a sealant with movement of $+100/-50\%$. It should be noted that the selected sealant should comply with ASTM C 920 with regard to joint movement or what is referred to as “Class” of sealant. The testing procedure of ASTM C920 for the “Class” of sealant exposes the sealant to extremes of temperature in compression and extension over multiple cycles without adhesive or cohesive failure. You should be cautioned that many times a sealant manufacture advertises 50% joint movement, but when you read the fine print, the sealant only conforms to ASTM C 920 Class 25 ($\pm 25\%$) and not Class 50 ($\pm 50\%$).

Cure speed during cold weather applications should be a decisive factor when choosing a sealant. The faster the sealant cures in cold weather, the faster it gains tensile and adhesive strength (and) the greater the probability that the sealant will survive the large amount of movement with temperature extremes. The slower the sealant cures the more exposure to excessive movement during cure. This exposure leads to sealant fatigue and poor adhesion. To compensate for slow cure on cold days it is best to apply sealant on the sunny side of the building. On the sunny side of the building, the joint will be smaller, will require less sealant, and thus a quicker cure through will occur. The sealant will be subjected to less stress under compression when hot weather returns. Caulk the non-sun exposed sides of the building when the temperature extremes have stabilized either when the temperature is consistently cold, but not on the coldest days of the year or when consistently warm. Keep in mind that when applying sealant on the coldest of days on the non-sunny side of the building the joint is at its widest. From that point forward the joint will only be in compression potentially causing bread-loafed looking joints as the temperatures rise. Special attention needs to be paid to manufactures specific recommendations with regard to cold applications. Some manufactures recommend that their products not be used below 40°F . Some recommend no use below 32°F . Some recommend the use of primers or accelerators. One-part polyurethanes manufactured with MDI pre-polymer not only are chemically safer to use, but will generally cure faster than TDI formulated polyurethanes even at cold temperatures. Two-part polyurethanes may need an additional accelerator to increase cure rates. Oxime neutral cure formulated silicones generally will cure faster than alkoxy-based neutral cure silicones.



As most contractors are well aware, not all sealants gun the same way even on the best of weather days. Silicone sealant viscosity changes very little when exposed to cold temperatures. It is not uncommon for silicone sealants to maintain their viscosity with temperatures as low as 0° F. Polyurethane sealants, on the other hand, gain viscosity as the temperature falls. To overcome this viscosity change, conditioning the sealant to room temperature using job site heating boxes prior to use is necessary. Several newer technology urethanes have been formulated to keep their viscosity relatively stable in lower temperatures. Pre-extruded silicone bridges come ready to use and require no chemical cure except for a thin bead of silicone used for adhesion. These pre-extruded silicone strips have a greater movement capability than any other sealant material and are not affected by cold weather. Consulting manufactures for specific product performance is strongly recommended.

In summary, the following considerations should be taken into account when choosing and applying sealants as cold weather approaches: joint movement is at its maximum range in the fall, sealant joint movement should exceed the theoretical design movement, sealant adhesive and cohesive properties could be reduced if sealant cure speed rate is too slow, choose a sealant with more than adequate joint movement capability, that is faster curing, and has good handling characteristics including high extrusion rate and ease of tooling.



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Congratulations to our 2021 winners:

1st Place – Structural Rehabilitation Group

2nd Place – Concrete Protection & Restoration

3rd Place – Sika Corporation

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THE
DATE**

**2021 Fall Technical Seminar
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2021 ICRI BALTIMORE-WASHINGTON CHAPTER FALL GOLF OUTING THURSDAY OCTOBER 8, 2021



The 30th Annual Fall ICRI-BW Chapter Golf Tournament was held on Thursday, October 7th at Waverly Woods golf course in Woodstock, MD. The turnout was great! There was a total of 72 golfers that participated in the tournament this year. Early morning cooler temperatures turned into warmer weather in the afternoon with plenty of sunshine. The morning started off with breakfast provided by Chick-fil-A and liquid refreshments. Hotdogs and hamburgers were served at the clubhouse mid-round and a boxed lunch was provided at the end of the round along with the awards presentation. Awards this year included two long drive holes, one closest to the pin hole, and 1st, 2nd, and 3rd place overall winners. We also had a very close call at the \$5,000 cash putting contest and a couple shots within 5 feet at the \$10,000 hole-in-one hole. Thank you to all of our tournament sponsors and participants this year. We continue to have a tremendous amount of support from our member organizations and very much look forward to seeing everyone on the golf course next fall!

Congratulations to our 1st place team: Ken Kosteva, Matt Salzer, Craig Abell, and Alan Rutherford



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