

Robin Lafleur

From: Alan Pemstein <apemstein@hmfh.com>
Sent: Wednesday, June 10, 2020 2:26 PM
To: Robin Lafleur
Cc: Cartabona, Stephanie; Tina Stanislaski; Laura Wernick
Subject: FW: dover floor pictures

Robin - below is information on the gym floor. Could you either provide it to the committee members in handouts or on the screen? I know its late but I'm sure it is something they will want to discuss. Will you be sending a call in number? Thanks, Alan

Alan Pemstein AIA LEED AP
617 844 2140

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From: Dan Heney <DHeney@maplefloor.org>
Sent: Wednesday, June 10, 2020 1:53 PM
To: Kevin Radziwon <KRadziwon@pcconstruction.com>; Alan Pemstein <apemstein@hmfh.com>
Cc: s.cartabona@dover.nh.gov
Subject: RE: dover floor pictures

Kevin,

As long as the floor gets to a minimum moisture content range of at 9% the use of water based sealer/finishes or oil based sealers/finishes is acceptable to the MFMA. If the floor doesn't reach a minimum moisture content of 9% and large cracks still are present, MFMA would like to make the school officials aware of possible side effects of each product.

Sidebonding/Panelization

"Panelization" is a condition where localized excessive cracks develop between some strip flooring boards while adjacent boards remain tightly bonded together with no apparent separations. "Panelization" (or "sidebonding") is definitely not a new problem. It has, however, gained increasing attention as new EPA V.O.C. regulations have begun to affect the availability of traditional oil-based floor finishing products in many areas of the country.

While the development of "panelization" is certainly not limited to one brand of finish or to one particular subfloor design, the problem has been most closely associated with the use of water-based sealers and finishes on raw (untreated) maple strip flooring in areas of the country that experience distinctly different seasonal moisture conditions.

MFMA cautions installers and end-users that the use of some water-based finishes has produced a sidebonding effect that can result in localized excessive and irregular separations ("panelization") between maple flooring strips. We strongly recommend that end-users, project architects and specifiers consult with their flooring installer and finish manufacturer to obtain approved procedures for sealing and finishing a raw maple strip floor with water-based products. The use of water based sealers and finishes on raw (untreated) maple strip flooring in areas of the country that experience distinctly different seasonal moisture conditions and has large cracks present increase the likelihood of sidebond/panelization occurring.

Polyballs

"Poly Balls" occasionally occur in new maple installations or during resurfacing or recoating of existing maple floors coated with oil based floor finish. The finish collects between flooring strips and cures at a much slower rate. With some new low-VOC oil-modified finishes the cure time has increased. Solvent-based finishes rely on exposure to oxygen to cure the film. A situation may occur when the finish is applied penetrates between the flooring strips.

Once the finish gets in between the flooring strips, it becomes more difficult for oxygen to react with the dryers in the finish. This allows the finish to remain partially cured for an indefinite period of time. When the moisture content of the flooring increases and closes the spacing between the boards, the finish that has not fully cured squeezes out from the side joints of the maple strips and appearing like little BB's on the surface of the flooring. When stepped on, poly balls flatten out or break open and leaving unsightly residue on the finish.

The floor should be swept daily to remove any poly balls that have broken free. A complete resurfacing is not necessary to remedy this minor problem. Contact your MFMA Installer or Finish Manufacturer for an evaluation for recommended remedial procedures. Extent and severity of poly balls varies dramatically, so a general recommendation is not possible.

The Maple Flooring Manufacturers Association (MFMA) recommends maintaining indoor relative humidities between 35 percent and 50 percent, and air temperatures between 55 degrees and 75 degrees year-round.

By limiting wide swings in atmospheric conditions inside the facility, you will reduce the expansion and contraction of the flooring system. If flooring materials are properly acclimated, a 15 percent fluctuation in indoor relative humidity will not adversely affect the maple. Excessive shrinkage and/or expansion may occur with indoor relative humidity variations in excess of 15 percent.

It is especially important to maintain this recommendation during the application of oil based floor finishing products. When conditions fall outside the recommended limits, finish oozing is a likely possibility, even if the floor was refinished several months before.

Sincerely,

Dan



Daniel F. Heney
Executive Vice-President

Maple Flooring Manufacturers Association

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From: Kevin Radziwon <KRadziwon@pcconstruction.com>
Sent: Wednesday, June 10, 2020 12:40 PM
To: Dan Heney <DHeney@maplefloor.org>; Alan Pemstein <apemstein@hmfh.com>
Cc: s.cartabona@doover.nh.gov
Subject: RE: dover floor pictures

Hi Dan,

Nice speaking with you yesterday. I know Jim from NE Sports floor had been inquiring about the use of water based sealer/finish. What are your thoughts?

Thanks

Kevin Radziwon
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From: Dan Heney <DHeney@maplefloor.org>
Sent: Tuesday, June 9, 2020 4:23 PM
To: Alan Pemstein <apemstein@hmfh.com>
Cc: Kevin Radziwon <KRadziwon@pcconstruction.com>; s.cartabona@doover.nh.gov
Subject: RE: dover floor pictures

Alan,

Thank you for the pictures. MFMA would advise waiting until the moisture content of the maple flooring reaches a minimum of 9% before sealing and finishing is started. It is important that school officials understand that proper environmental conditions must be maintained in the space year-round. High Levels of temperature/humidity in the summer/fall can result in excessive expansion and/or cupping of the floor systems and low levels of temperature/humidity in the winter/spring can result in excessive contraction of the floor system.

To assist school officials, MFMA recommends using a HOB0 reader in the gymnasium space to monitor environmental conditions.

Recommended HOB0 monitor - <https://www.onsetcomp.com/products/data-loggers/mx2301a/>
HOB0 article - <https://www.onsetcomp.com/resources/world-hardwood-flooring-data-makes-world-difference/>

Sincerely,

Dan



Daniel F. Heney
Executive Vice-President

Maple Flooring Manufacturers Association

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From: Alan Pemstein <apemstein@hmfh.com>

Sent: Tuesday, June 9, 2020 1:48 PM

To: Dan Heney <DHenev@maplefloor.org>

Subject: FW: dover floor pictures

Alan Pemstein AIA LEED AP

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From: Kevin Radziwon <KRadziwon@pcconstruction.com>

Sent: Tuesday, June 9, 2020 2:44 PM

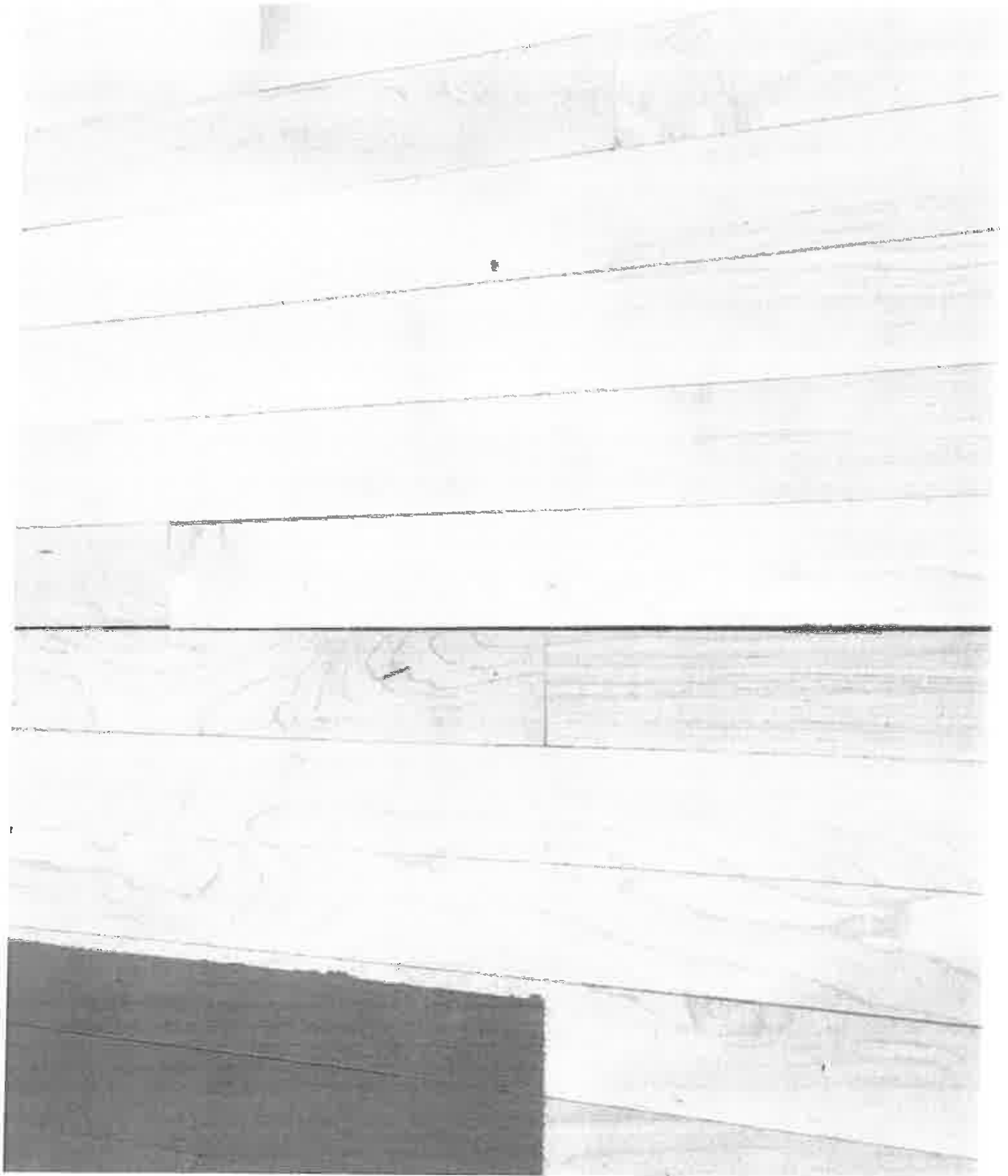
To: Alan Pemstein <apemstein@hmfh.com>

Cc: s.cartabona@dover.nh.gov

Subject: Re: dover









Sent from my iPhone

On Jun 9, 2020, at 2:08 PM, Alan Pemstein <apemstein@hmfh.com> wrote:

Kevin - could you send me a few pictures of the gaps? And advise dimension of opening?
Thanks, Alan

Alan Pemstein AIA LEED AP
617 844 2140

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From: jz@nesportsfloors.com <jz@nesportsfloors.com>
Sent: Tuesday, June 9, 2020 1:52 PM
To: Alan Pemstein <apemstein@hmfh.com>
Cc: 'Garret Bertolini' <gbertolini@pcconstruction.com>; 'Kevin Radziwon' <KRadziwon@pcconstruction.com>
Subject: RE: dover

Alan, the moisture readings are as follows –

7.4
8.2
6.5
8.4
6.5
8.5
7.6
8.1
6.5
7.8

From: Alan Pemstein <apemstein@hmfh.com>
Sent: Monday, June 8, 2020 11:18 AM
To: jz@nesportsfloors.com
Cc: 'Garret Bertolini' <gbertolini@pcconstruction.com>; 'Kevin Radziwon' <KRadziwon@pcconstruction.com>; s.cartabona@dover.nh.gov; Tina Stanislaski <tstanislaski@hmfh.com>
Subject: RE: dover

I spoke w/ MFMA and he would like to know the current moisture content of the floor. if you could provide the percentage at 10 varied locations he would better be able to provide advice. When he saw the floor it was cupping, not opening up.
Thanks, Alan

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617 844 2140

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From: jz@nesportsfloors.com <jz@nesportsfloors.com>
Sent: Monday, June 8, 2020 9:18 AM
To: Alan Pemstein <apemstein@hmfh.com>
Cc: 'Garret Bertolini' <gbertolini@pcconstruction.com>; 'Kevin Radziwon' <KRadziwon@pcconstruction.com>; s.cartabona@dover.nh.gov; Tina Stanislaski <tstanislaski@hmfh.com>
Subject: RE: dover

Can you reach out to Dan Heney MFMA director and ask him?

From: Alan Pemstein <apemstein@hmfh.com>
Sent: Monday, June 8, 2020 9:15 AM
To: jz@nesportsfloors.com
Cc: Garret Bertolini <gbertolini@pcconstruction.com>; Kevin Radziwon <KRadziwon@pcconstruction.com>; s.cartabona@dover.nh.gov; Tina Stanislaski <tstanislaski@hmfh.com>
Subject: Re: dover

I would need To get MFMA's opinion

Sent from my iPhone

On Jun 8, 2020, at 8:57 AM, "jz@nesportsfloors.com" <jz@nesportsfloors.com> wrote:

Guys,

Per Kevin's recommendation, we have been using a shop vac to assist in drying the stain and it seems to be working. We did another pass this morning and my foreman thinks that after a few more days we should be ready to apply seal.

Alan, I'm hoping you will reconsider the water-based seal/finish approach as the oil product will not dry. I have used the water based system on many new floors without any side bonding issues.

If I can get the manufacturer to write a letter blessing this approach will you approve it?

Please advise, thx. Jim