



TECHNICAL BULLETIN

Edition 11.17.19

Closed-Cell Application Thickness

Dear RIS Team,

We have seen several instances of misinformation being propagated online regarding the maximum pass thickness for UPC 1.7 and 2.0. We have also witnessed many applicators applying these products at 3", 4" and even 5".

As a reminder, 1.7 & 2.0 closed-cell products should never be applied more than 2" thick in a single pass.

It is advised that the applicator should wait at least 15 minutes or until the surface is hard to the touch before applying a second layer.

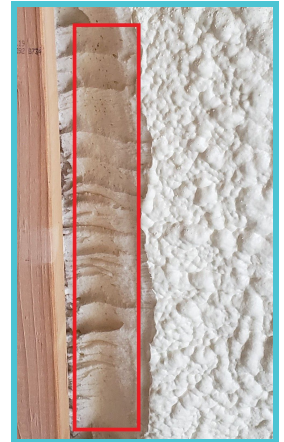
The chemistry is tuned for maximum pass thickness at 2". Beyond 2" the risk exists for excess exothermic reaction. This results in the plastic overheating and the cellular structure expanding and distorting beyond its design limits. Dimensional stability is thereby compromised. The consequences are burnt, charred and smelly foam, and even cracking or shrinking foam. Closed-cell foam that is dimensionally unstable will succumb to "thermal shock" at the onset of cold temperatures, as the walls of the cells are strained to shrink and collapse in the cold. While the foam may appear satisfactory when first sprayed at excessive thickness, the problems may not arise for many months.

UPC is currently field testing 2.0 and 1.7 High-Lift versions that are tuned for thicker passes. These will be especially useful in northern markets where closed-cell is routinely applied at 3"+. These products should be available shortly in the coming weeks..

Sincerely,



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Technical Director
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1.7 (R) sprayed at 4" thick pass. Core of foam exhibited charring and enlarged cells. Fishy like odor was present.

1.7 (R) sprayed at 3.5" thick in August. Initial cracking beginning to occur in November at first exposure to sub-freezing temps.

