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Competitive Analysis

Purpose:

The lab was asked to compare 4 competitive applications against Topkote Urethane.

Testing parameters:

Tile panels were prepared according to literature provided with competitive material. This can be found on the labels of the competitive material. Upon final application tiles were allowed to cure 2, 4, 24, 48 and 168 hrs. Tiles were also tested for set to touch times. This time is used to determine optimize dry time to allow applicators to caulk and remove tape. Tiles were tested for dry adhesion according to ASTM D 3359. Tiles were then immersed in a 120°F bath for 20 minutes and again tested for adhesion. Finally a 5 minute recovery was given before testing again for adhesion. Anything less than a 5B was failed.

Pencil hardness was run according to ASTM D 3363 at 2, 4, 24, 48, and 168 hrs.

Application:

Competitor A has a cleaner/adhesion promoter/urethane. There are two adhesion promoters that were tested.

Competitor B has cleaner/cleaner/adhesion promoter/urethane.

Competitor C has cleaner/adhesion promoter/urethane.

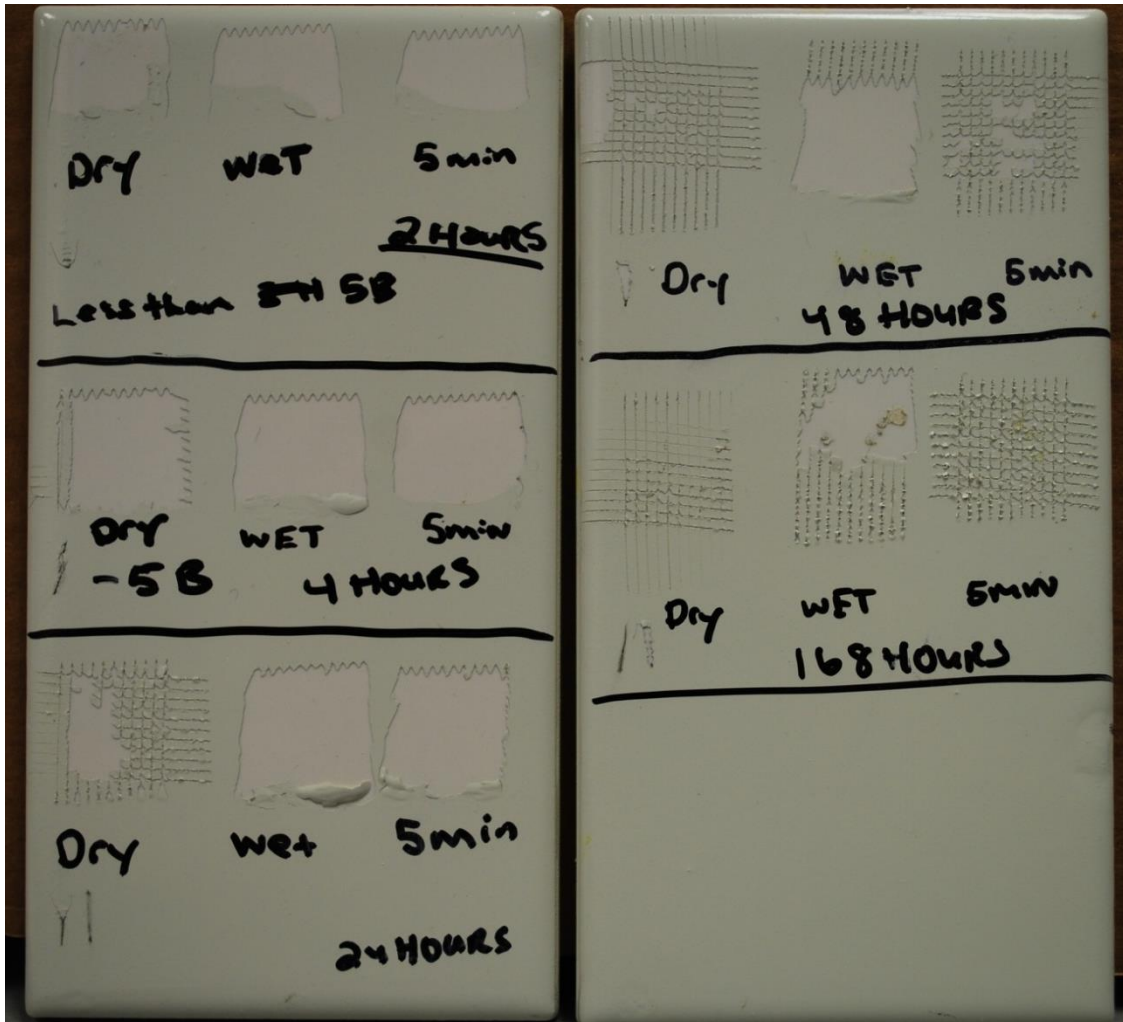
Topkote has cleaner/adhesion promoter/urethane.

Conclusion:

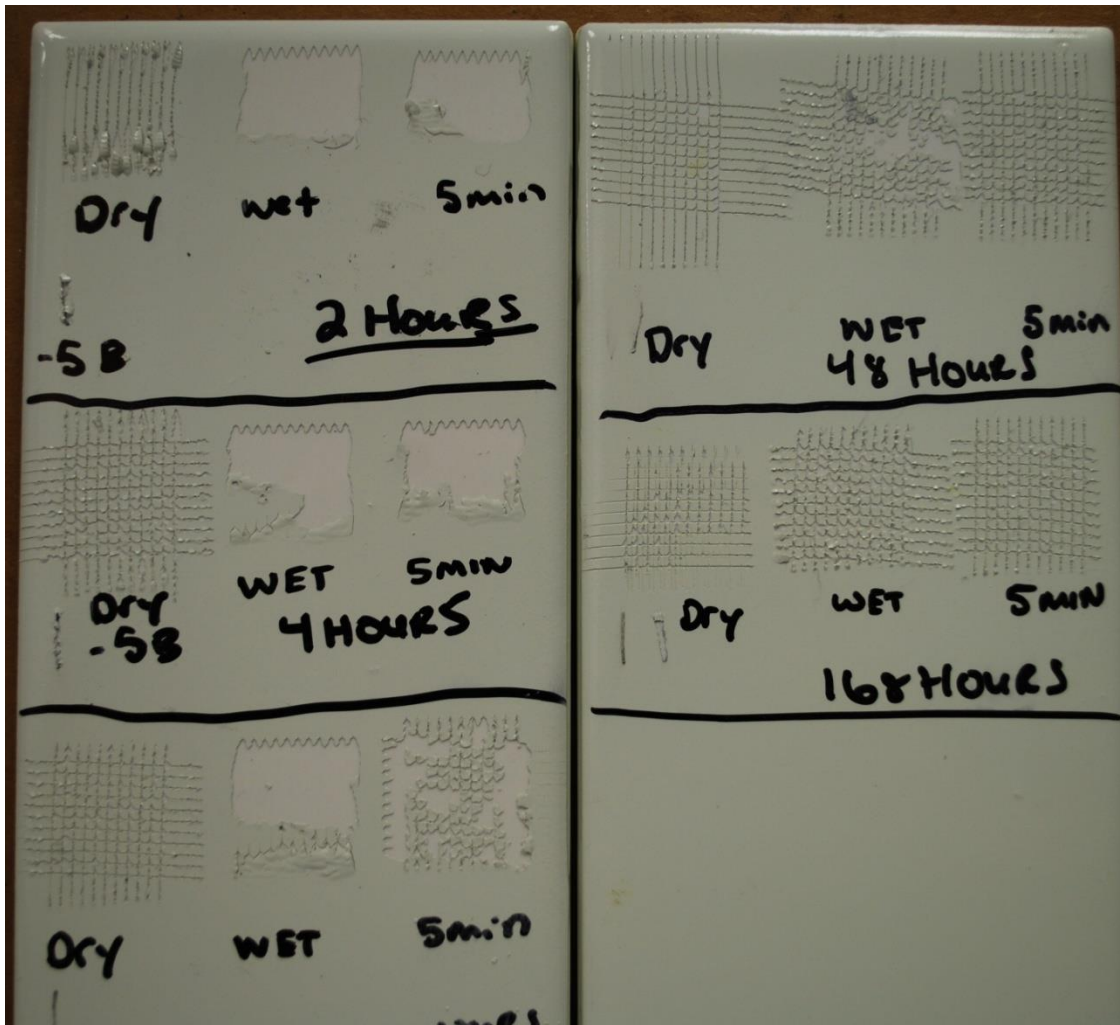
The Topkote application outperforms the competitive material in 2, 4, 24, 48 and 168 hour testing. Adhesion was 5B during all testing. All coatings required a minimum 24 hrs before a pencil hardness was able to be taken. Competitor A and B improved to 4B adhesion at 168 hours but this was well over the recommended literature dry time.

Results:

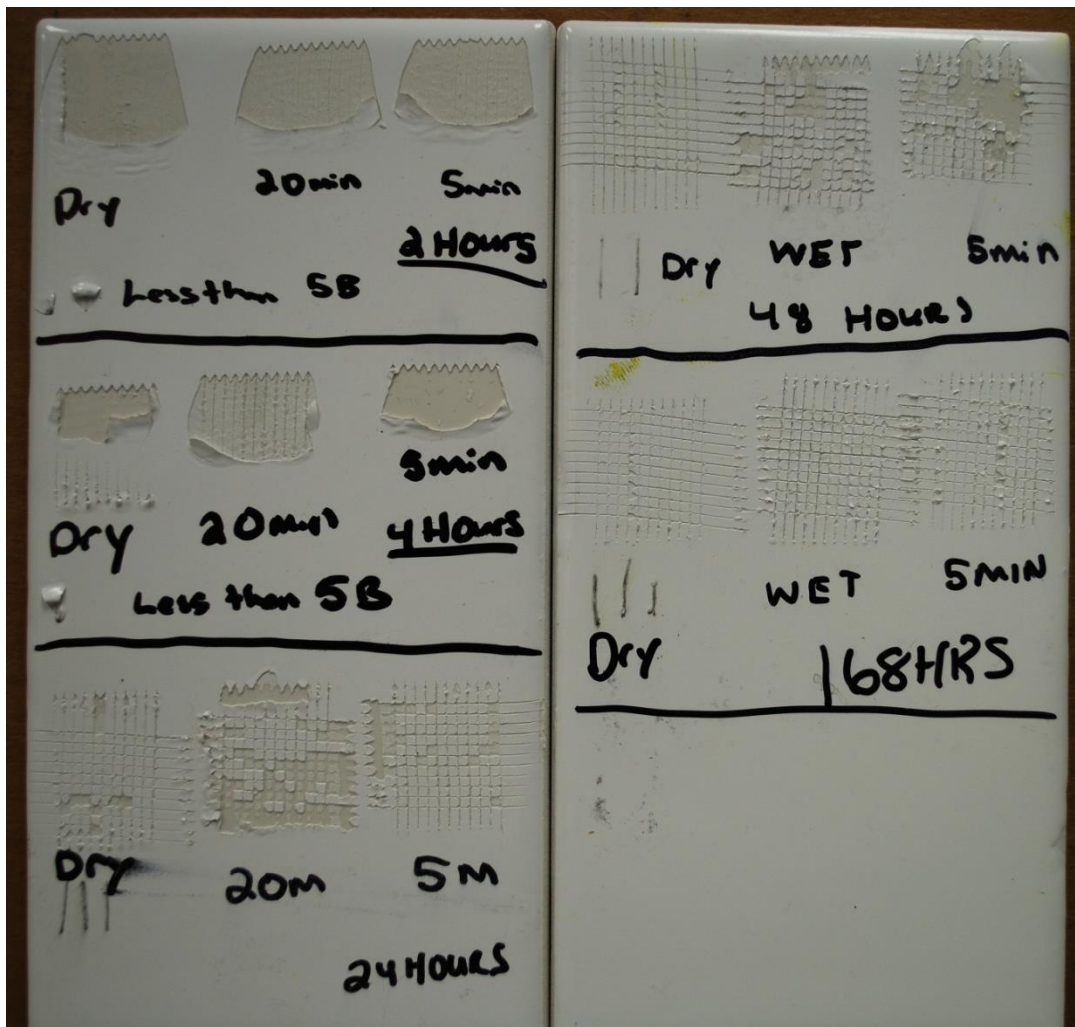
Competitor A Cleaner															
Competitor A1 Adhesion Promoter															
Competitor A Urethane															
Set to Touch: 30 min															
Dry Time	2 hr			4 hr			24 hr			48 hr			168 hr		
	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min
	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
Pencil	n/a			n/a			3B			HB			F		



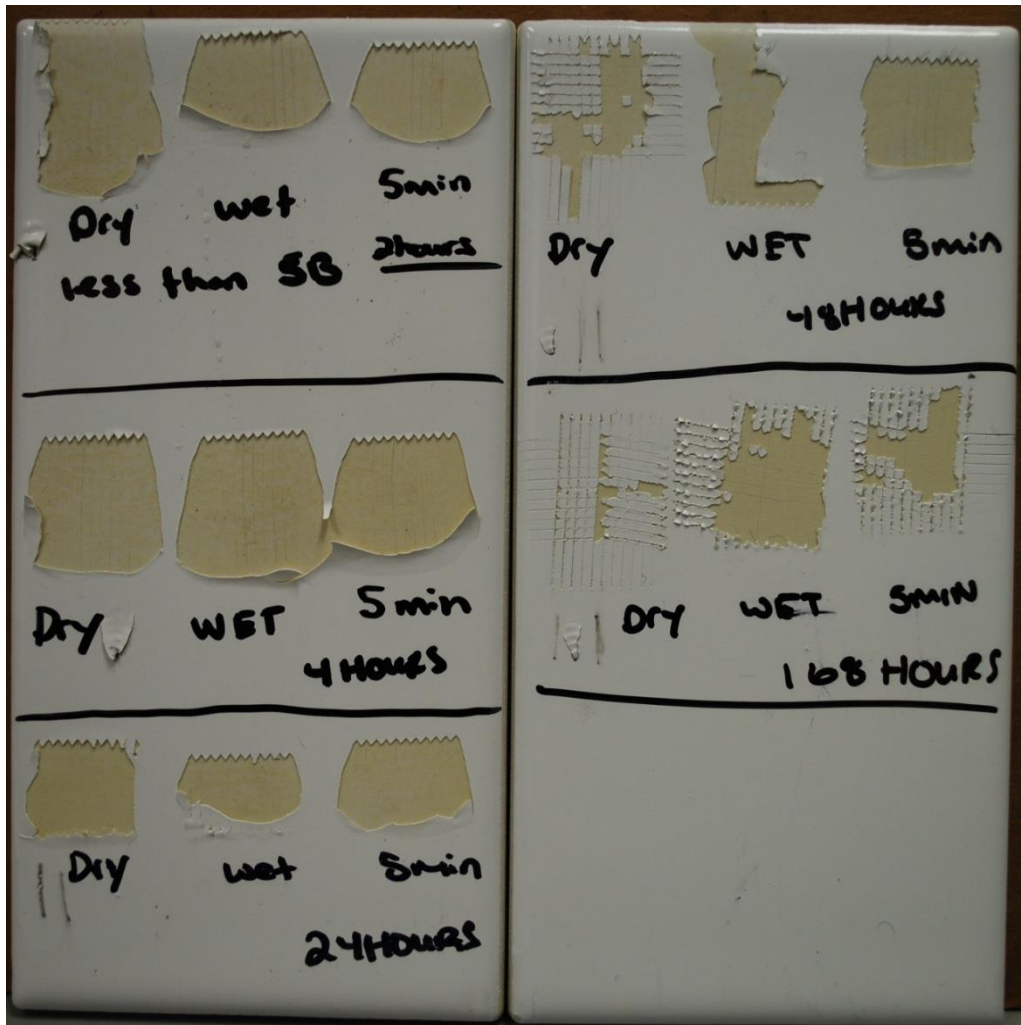
Competitor A Cleaner															
Competitor A2 Adhesion Promoter															
Competitor A Urethane															
Set to Touch: 30 min															
Dry Time	2 hr			4 hr			24 hr			48 hr			168 hr		
	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min
	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
Pencil	n/a			n/a			4B			F			F		



Competitor B Cleaner 1															
Competitor B Cleaner 2															
Competitor B Adhesion Promoter															
Competitor B Urethane															
Set to Touch: 30 min															
Dry Time	2 hr			4 hr			24 hr			48 hr			168 hr		
	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min
	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Pass	Fail	Fail
Pencil	n/a			n/a			3B			F			F		



Competitor C Cleaner															
Competitor C Adhesion Promoter															
Competitor C Urethane															
Set to Touch: 40 min															
Dry Time	2 hr			4 hr			24 hr			48 hr			168 hr		
	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min
	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
Pencil	n/a			n/a			4B			HB			HB		



Topkote Cleaner															
Topkote Adhesion Promoter															
Topkote Urethane															
Set to Touch: 20 min															
Dry Time	2 hr			4 hr			24 hr			48 hr			168 hr		
	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min	Dry	Wet	5 min
	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Pencil	n/a			n/a			HB			F			2H		

