

## Bio-Span Activate Asphalt Miings Restorer Trial Test Results

Application Rate = 0.5 - 2.0 Gallon/Ton  
01 Ton 1000kg  
01 Gallon 4.5 Litters  
Time 20 Minutes after application  
Mixing 3 - 4  
Time Minutes  
Moisture Less  
of Milling than 5%

Trial	A	B	C	D	E	F	G	H	I
Rate of Application	0.5 G/Ton	0.7 G/Ton	0.9 G/Ton	1.1 G/Ton	1.3 G/Ton	1.5 G/Ton	1.7 G/Ton	1.9 G/Ton	2.0 G/Ton
Gallon/Ton	0.0005	0.0007	0.0009	0.0011	0.0013	0.0015	0.0017	0.0019	0.002
Litter/Ton	0.00225	0.00315	0.00405	0.00495	0.00585	0.00675	0.00765	0.00855	0.009
Milliliter/kg	2.25	3.15	4.05	4.95	5.85	6.75	7.65	8.55	9
ML/5kg	11.25	15.75	20.25	24.75	29.25	33.75	38.25	42.75	45

After mixing, mix was left for 20 minutes and a total of four briquettes for each trial were produced and compacted with 75 Blows of a Marshall Hammer.

The samples were then removed from the mold after 24 hours and densities and stability testing was carried out on each of them

Trial	A	B	C	D	E	F	G	H	I
Bulk Specific Gravity Dry	1.866	1.892	1.913	1.929	1.942	1.949	1.962	1.962	2.034
Bulk Specific Gravity Wet	1.956	1.955	2.005	2.024	2.059	2.070	2.077	2.105	2.142
Stability Dry (N)	6600	6468	4994	4994	5060	4180	4510	4180	4180
Stability Wet (N)	5170	4400	3960	4334	4180	3102	2926	3564	3520
Retained Stability (%)	78	68	79	87	83	74	65	85	84

The above results indicate that the mix at 0.5 G/Ton of mix generally exceeds the requirements of the City of Edmonton Design and Construction Standards for Stability and Retained Stability for our cold mix patching materials.

As a result a total of four trial patches have been installed by the City of Edmonton, Transportation Department for monitoring purposes.



Hugh Donovan, P.Eng.  
Construction Services Engineer,  
Engineering Services,  
Transportation Department  
City of Edmonton

EDMONTON



CULTURAL CAPITALE  
CAPITAL CULTURELLE  
of CANADA du CANADA