



Rosehill Polymers

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TPV DECLARATION

I can confirm that Rosehill TPV coloured granules is now widely utilised throughout the world in place of the traditional coloured EPDM in rubberised surfacing. Having weather tested this material against EPDM from numerous suppliers globally, we can confirm that Rosehill TPV coloured granules offers far greater UV resistance and colour stability than all those tested against to date. A UV aging machine was used to replicate a climate similar to that in Southern Mediterranean or Arizona in USA. There is significant deterioration in the EPDM from colour fading, chalking to embrittling and whitening. The TPV remains unchanged. Unfortunately we, like EPDM suppliers are very reluctant to offer a long term guarantee as the rubber is not the only component involved when installing the playground. If utilised with an aromatic binder there is a likelihood of discoloration due to possible yellowing of the binder. This can overtime burn off with high intensity UV but in areas of continuous shade it might not occur without mechanical intervention ie light sanding of the polyurethane surface coat. We have however weather tested our pure white TPV RH80 with our 100% ALIPHATIC BINDER FOR an artificially weathered duration of 5.2 years and find that when used as a system in this way that the white remains unchanged. Please note when used with an equivalent EPDM white there was noticeable colour discoloration of the white granules below. It becomes evident that in order to obtain maximum colour benefits over time then the TPV granules should be utilised ideally with Rosehill aliphatic as opposed to others on the market and vice versa. Sadly the cost implications of using an aliphatic binder on all wet pour areas make this scenario unrealistic.

We are happy to confirm that TPV will outlast known EPDM granules in countries of high UV levels and when installed correctly to acceptable wearing course depths and binder levels. We cannot however underwrite installation techniques nor be accountable for vandalism and other factors not determined by the actual quality of the TPV granules.

Mandii Rayner-Hey
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