



TECHNICAL DATA SHEET FLEXILON 1118 – Medium Curing Wet Pour Binder

DESCRIPTION

GENERAL

FLEXILON 1118 is a low viscosity, solvent-free, single component, moisture-curing binder based on polyether polyols.

FLEXILON 1118 is MDI-based and TDI -free.

FLEXILON 1118 is medium curing binder. FLEXILON 1180 is a similar product with a faster curing rate. FLEXILON 457 is a similar product with a lower viscosity.

USES

FLEXILON 1118 is used as a binder in the in-situ installation of safety surfaces using ROSEHILL TPV, EPDM and rubber reclaimed from tyres,

APPLICATION

COVERAGE/USAGE

The usage rate of the material will be very dependent on the type of rubber and the method of use and is normally in the range of 12-20% for wet pour.

METHOD of APPLICATION

Wet Pour installation is the subject of a further publication. See the Rosehill Polymers Technical Service Bulletin entitled "Wet Pour" for further information on the use of these products in this application.

FLEXILON 1118 based mixtures should not be applied to wet surfaces (i.e. surfaces where there are visible signs of moisture such as obviously damp patches). FLEXILON 1118 can be used after rain when the surface has visibly dried.

In very cold or dry conditions, a pre-treatment of the rubber with FLEXILON 1117 is recommended.

We do not recommend the installation of wet pour at temperatures of less than 5°C.

Yellowing can occur when FLEXILON 1118 is exposed to strong levels of UV light but this does not change its mechanical properties. The yellowing is most evident with blue rubber granules, which can appear green, grey which can appear yellow and beige, white and cream which can appear yellow. Depending on the weather conditions, these colour changes can occur within the first hours or days after application. If the level of UV is strong enough then the yellowing process is usually faster during the binder curing process. Over a period of time though, the original colour of rubber granule can return as the thin layer of binder wears off. This depends on the level of foot traffic on the surface. Where these sensitive colours are used, Rosehill Polymers recommend one of the following options:

1. Use FLEXILON 1231 UV stabilised binder. This can retard the yellowing but does not totally prevent it from occurring.
2. Use an aliphatic binder.

STORAGE

Store in a cool, dry place, indoors and avoid unnecessary opening of containers. Do not add any other materials to this product without written permission from the manufacturer. Once opened FLEXILON 1118 will start to cure and a skin will form. Partly used containers should be resealed immediately and re-used as quickly as possible.

HEALTH AND SAFETY

The recommendations made in the safety data sheet (SDS) for this product should be followed at all times.

TYPICAL PROPERTIES

S.G.	1.1
Appearance	Pale yellow to amber coloured liquid
Viscosity @ 25°C	1800 – 2500 cP
Flash Point	>200°C
Storage Stability (temperate)	9 months
NCO Value %	8.0 – 9.0