

Supplier Details:
American Recycling Center, Inc
655 Wabasse Dr.
Owosso, MI 48867
Phone: 989-725-5100
Fax: 989-725-5122



Rosehill Polymers™

American Recycling Center, Inc.

Manufacturer Details:
Rosehill Polymers Ltd.
Rose Hill Mills, Beech Road
Sowerby Bridge
West Yorkshire HX6 2JT
Phone: 01422 839610
Fax: 01422 835786

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, contains no volatile monomer and is TDI free.

FLEXILON 1118 is slow curing for use in warm climates, on warm substrates or where slow curing is a particular requirement. **FLEXILON 1180** is a similar product with a faster curing rate.

USES

FLEXILON 1118 is used as a binder in the in-situ installation of safety surfaces using rubber reclaimed from tyres, Rosehill coloured TPV or EPDM. The low viscosity of **FLEXILON 1118** facilitates mixing with this form of rubber. See the **Rosehill Polymers** Technical Service Bulletin entitled "**Wet Pour**" for further information on the use of these products in this application.

FLEXILON 1118 is also used extensively for the installation of E-layers in multi sport pitches and tracks.

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 15-22% for wet pour (by weight based on the rubber granule) for wet pour top courses. This depends on the type of rubber being used. Please call **Rosehill Polymers** to discuss further if assistance is required.

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 **Flexilon 1255** aliphatic binder.

In situations where the binder has already discoloured due to intense UV levels, it can be coated with one of Rosehill's remedial top coatings that are available in each of the Rosehill TPV colours. Matches for EPDM colours can also be requested.

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.

USED CONTAINERS

Treatment/Decontamination Rinse thoroughly with a strong aqueous detergent solution and LEAVE PERMANENTLY OPEN. The reaction of isocyanates with water leads to the formation of carbon dioxide, which can result in pressure build-up in closed containers. This treatment converts any liquid residue into an inert solid. It is advisable to superimpose a 'Decontaminated' label after treatment.

HEALTH AND SAFETY

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

TYPICAL PROPERTIES

Flexilon 1118

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| S.G. | | 1.05 – 1.10 |
| Appearance | | Clear Straw Coloured Liquid |
| Viscosity | @ 25°C | 1800 - 2500 mPas |
| Flash Point | | >200°C |
| Storage Stability (temperate) | | 9 months |
| NCO Value | % | 8.5 – 9.5 |