



RL1032/1

DESCRIPTION

RL1032/1 is a high quality, MDI based, moisture curing polyurethane adhesive. It provides a tough, flexible film and offers good adhesion to most types of shredded or crumbed rubber and has been used successfully with products such as recycled tyre crumb (SBR) and EPDM.

APPLICATIONS

This adhesive can be used to manufacture mats, underlays, pads and blocks, etc. from rubber crumb or shreds by either wet pour or compression moulding methods.

RL1032/1 is manufactured from an aromatic isocyanate and as such will discolour with exposure to UV light.

Due to the large variety of types and grades of crumbed rubber available, users need to conduct adequate tests to satisfy themselves as to the suitability of this product for their own particular applications.

PROCESSING

Rubber granules should be dry before use. Typical usage is around 10-20% of adhesive depending on application. The rubber is mixed thoroughly with the adhesive in a suitable agitator for ~ 5 minutes, or until completely wetted out. The mixture can be spread by trowel and compacted to the desired density on the prepared substrate. Alternatively, with the compression moulding method, the mixture can be added to a mould and formed and cured in a heated press.

CURING PROFILE

Curing takes place at ambient temperature by reaction with atmospheric moisture and will vary with temperature, humidity and the moisture content of the rubber. The working time with the adhesive depends on the above factors but in general is up to two hours. The cure time will also vary with temperature and humidity, but typically is 24 hours. Higher temperatures and humidity will result in faster curing, as will the use of RL368 catalyst. Lower temperatures and lower humidity will result in slower curing. For compression moulding applications, water can be added up to about 1% weight of RL1032/1 to facilitate faster curing. This may be necessary in heated presses that do not have steam injection.

TYPICAL PROPERTIES

Appearance	Almost colourless to amber liquid
Viscosity	3,900 cps
Specific Gravity	1.09
NCO Content	10%

STORAGE & HANDLING

Refer to Material Safety Data Sheet. Material should remain usable for 12 weeks from delivery date providing material is stored in accordance with listed instructions. (See Material Safety Data Sheet).

HEALTH & SAFETY

Refer to Material Safety Data Sheet.

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The application, use and processing of our products is the responsibility of the user. Any technical or other advice, information or data provided by us, whether verbally, in writing or by way of trials or tests, is given without guarantee or warranty. Refer to Material Safety Data Sheets for information on Storage & Handling, Health and Safety, and Transport.

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