

RUBBERBIND NUV

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

RUBBERBIND NUV is designed as a wet pour binder for SPECTRARUBBER granules such as SPECTRAPLAY and SPECTRAMULCH or MELOS EPDM. **RUBBERBIND NUV** has elastomeric properties, enabling it to encapsulate and bind the SPECTRARUBBER granules together forming an extremely strong and tight but flexible cushion and wear matrix.

RUBBERBIND NUV SPECIFICATION

Available NCO %	7.0 - 10.0
Viscosity 25°C cps	6 500 - 10 000
Density 25°C gm/cc.	1.13 (± 0.02)
Solids Content	100%
Flash Point °C	>200

APPLICATION

RUBBERBIND NUV has been designed for binding SPECTRARUBBER granules in trowelled applications. SPECTRARUBBER granules should be mixed with 20% of **RUBBERBIND NUV** and allowed to cure for 24 to 48 hours, depending on ambient temperature and relative humidity. SPECTRARUBBER to binder ratio may vary depending on rubber particle size and a cushion layer may only require 16% **RUBBERBIND NUV** to SPECTRARUBBER granules and therefore it is important that the applicator establishes the correct ratio of SPECTRARUBBER granules to **RUBBERBIND NUV** for optimal results in each application. It is essential to ensure that the **RUBBERBIND NUV** and the SPECTRARUBBER granules are well mixed together and are 100% homogenous.

For faster cure times an addition of catalyst can be made. Adding 0.1% of RUBBERBIND ACCELERATOR to **RUBBERBIND NUV** will give a surface dry time of 3 - 4 hours and a tack free time of 7 - 9 hours at ± 25°C and ± 50 % relative humidity. The rule of thumb is: the higher the temperature, relative humidity and catalyst level, the faster the drying/curing time will be.

RUBBERBIND NUV can also be used for binding SPECTRARUBBER granules in a heated mould in a heated press. Typical mould temperature is between 70 – 100°C. Results show that using SPECTRARUBBER granules with 10 – 14 % of **RUBBERBIND NUV** allows a de-mould time of 25 – 30 minutes.

It is essential to ensure that the SPECTRARUBBER granules are well mixed with the **RUBBERBIND NUV** to give a thin coating. This mix has been shown to be stable prior to loading to the press for 1 1/2 hours.

Steaming the loaded mould or material mix prior to loading the mould has given very good results.

COMPONENTS PRODUCED

Typical components are spacers, sheet and tiles up to 50 mm thick. Thicker compounds are possible, but the de-mould time will increase.

RUBBERBIND NUV

TECHNICAL DATA SHEET

COLOUR STABILITY

The wet pour playground or sports floor created by using the **RUBBERBIND NUV** and SPECTRARUBBER granules will yellow and darken on ageing due to the aromatic nature of the **RUBBERBIND NUV**. White and pastel colours should therefore be avoided.

STORAGE & STABILITY

RUBBERBIND NUV is an isocyanate prepolymer and will react with moisture generating carbon dioxide. This contact with moisture results first in an increase in viscosity and eventually in gelling and/or skin formation. Therefore, the containers should be stored with the seals intact and opened containers used first. The reaction with moisture/water can lead to dangerous build-up of pressure in the drums. Partially used containers must be tightly re-sealed after use to prevent ingress of moisture. It is recommended that these drums be purged with dry air or nitrogen. Empty drums should not be closed and for safety reasons a hole should be made in the container. Sealed, unused containers should be stored in a cool environment, preferably below 25°C, to prevent an undue increase in viscosity. **RUBBERBIND NUV** has a storage life of 6 months from date of delivery at 25°C in unopened containers when stored at normal in-door ambient conditions (20 - 25°C).

SAFETY AND HANDLING

RUBBERBIND NUV contains no readily volatile isocyanate compounds, however, the aerosols produced when applying the material by spraying do present a hazard to the respiratory organs. Inhalation of fumes must be strictly avoided and a protective mask, preferably with a remote clean air supply should be worn while spraying. The precautionary measures of wearing a fresh-air respirator and providing efficient ventilation must be adhered to. **RUBBERBIND NUV** should be treated as a diisocyanate and the usual precautions should be exercised when handling this family of chemicals. Protective clothing should be worn and contact with the body avoided.

For further details, see the Material Safety Data Sheet, for the usual precautions (available in detail) to be followed when handling and applying isocyanates.

OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge true and accurate but any recommendations or suggestions, which may be made, are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

Date issued: 01/05/2020

Revision No.: 0