

FlowSport PUR 01

Product Description

Flowsport PUR01 is moisture curing, solvent free, rapid curing polyurethane binder based on MDI.

Uses

FlowSport PUR 01 is used as a binder for recycled rubber and coloured EPDM granules for installation of sports floor system.

Environment & Health

FlowSport PUR 01 is a solvent free product and practically odourless during application.

Follow the appropriate Occupational Health and Safety guidelines applicable to the location where the application is undertaken.

For more information, please refer to the safety datasheets for the individual components.

Application Temperature

The recommended substrate temperature is 15 - 30°C.

The temperature of the substrate should exceed the "dew point" by 3°C during application and hardening.

Temperatures should not fall below 5°C in the 24hrs after application.

Application Time/Pot Life

Ready-mixed product should be used within 15 minutes at a temperature of 20°C.

At higher temperatures the application time is shorter.

Typical Working Life

30-90 minutes

Application Method

The quantity of binder needed depends on granules size to be used.

Base layer granule size 2-6 mm – Binder required is 10-14%

Base layer granule size 1-4 mm – Binder required is 14-19%

For the installation of base layer, mix granules with Flowsport PUR01 in a mixer at 300 rpm for 3-5 minutes.

The homogenous mix is applied by hand. In order to achieve good surface strength, the rubber granule mat must be compacted thoroughly. If necessary, use a compaction roller.

Special attention must be paid to the construction joints, which must be carefully reworked using a smoothing trowel. Cured joints must be primed with FlowSport PUR 01 and well trowelled to ensure the adhesion. Otherwise, flaws will develop at the joints, which can lead to cracks in the surface.

For an EPM surface, 20 % of FlowSport PUR 01 is added to the EPDM granules (grain size 1-35 mm). The application process is the same as for recycled rubber granules.

The reduction of the binder ratio is not recommended, as the mechanical characteristics decrease and might even fall below the requirements of the relevant standard.

The smoothing of the surface during application of the binder-granule mix can be facilitated by using smoothing agent, which is used to moisten the tools. It is a very pure product with only a slight odour. As the tools are only moistened, the consumption can be very low.

The granules must be dry, otherwise, humidity acts as a catalyst and accelerates the chemical reaction with the binder, causing the binder to foam, the formation of a non-homogeneous layer and of poor mechanical properties.

The yellowing of the binder, which occurs, when the surface is exposed to the sunlight, does not influence the mechanical properties of the material.

With certain colours of EPDM granules, this can lead to a colour change on the surface due to the formation of mixed colours. Thus, with blue surfaces, a green colouring is to be expected, in case of grey surfaces an evident yellow colouring. For green, yellow, red or orange coloured EPDM layers, the yellowing of the binder is not as noticeable.

This discoloration takes normally place - depending on the weather conditions - within the first hours / days and loses its intensity after a few weeks of normal use due to wear and weathering of the very thin binder layer on the top of the granules.

Density

Approx. 1.18 kg/litre

Storage

12 months in unopened pack. Storage temperature between 5°C and 40°C.
Protect from weather and moisture / contaminant ingress.

Packaging

The product is delivered in 20 kg tin.

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