



One-component PUR binder

TETRAPUR 154

Product description

TETRAPUR 154 is high quality, ambient moisture curing, one-component PUR binder based on MDI.

Properties

- high mechanical resistance
- high flexibility
- low viscosity
- fast curing
- solvent free

Application

TETRAPUR 154 is used as a one-component binder for laying elastic mats made of SBR or EPDM rubber granules. Typical fields of application are athletic tracks, playgrounds, multi-purpose sports fields and tennis courts. Used for rubber mats in TETRAPUR ENZ II, IIIS, IV, IVS, WS and TETRAPUR PZ surfaces. For the best results, it is recommended to use TETRAPUR 154 at a temperature of 7° C to 30° C.

Technical data

DENSITY	at 23°C	~1,08 g/cm ³
VISCOSITY	at 23°C	3000 ± 500 mPas
NCO CONTENT		10,0 ± 0,5%
COLOUR		light brown, transparent
READY FOR FOOT TRAFFIC	at 10°C at 20°C at 30°C	16 - 30 h 12 - 24 h 8 - 12 h
SUBSTRATE AND AMBIENT TEMPERATURE		7 - 30 °C
PERMISSIBLE RELATIVE HUMIDITY		40 - 90 %
PROCESSING TIME	at 20°C humidity 50 %	1 h
PACK SIZE		220 kg
TYPE OF PACK		metal drum



Product preparation

TETRAPUR 154 is supplied ready to use. After adding the binder to the rubber granules with stabilized moisture content, mix in a mixer for 3 to 5 minutes, so that each granule is completely covered with the binder. It is proposed to mix in proportion:

Rubber crumbs: 100 kg

TETRAPUR 154: 20 kg

The processing and hardening time and are reduced with increasing ambient temperature and humidity. The granulate should be dry and free from dust and contamination. The presence of moisture in the granulate leads to a significant reduction in material processing time and, consequently, to application difficulties, lower aesthetics and durability of the surface.

The color change that occurs when TETRAPUR 154 is exposed to UV radiation does not affect its mechanical properties. The phenomenon is most noticeable in the case of some colors of EPDM granules. Changes usually occur, depending on weather conditions, within a few hours or days of application. Over time, as a result of abrasion of the binder layer, the changes disappear and the original color of the EPDM granules becomes visible. In the case of surfaces with sensitive colors, it is recommended to use aliphatic binders, completely resistant to color change (TETRAPUR 144UV).

Cleaning the tools

Re-usable tools should be cleaned immediately after work using suitable solvents (e.g. butyl acetate, ethyl acetate, xylene). Never use alcoholic solvents nor water.

Storage

Store in tightly closed, original containers at the temperature from 10°C to 25°C. The containers should be kept under dry conditions and protected from exposure to direct sunlight. Under these conditions the product has a shelf life of 12 months.

Safety precautions

TETRAPUR 154 is non-hazardous in its cured condition. Always use protective clothing, safety goggles and gloves. Avoid contact with eyes and skin. Do not breathe vapours. If contamination occurs rinse thoroughly irritated skin and eyes with water and consult with doctor. When handling do not eat, smoke and work with open fire. Handle in accordance with good occupational hygiene and safety practices advised by chemical industry with reference to reactive resins.



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