



# One-component PUR binder

## TETRAPUR 144

### Product description

TETRAPUR 144 is a high quality, ambient moisture curing, solvent free, one-component PUR binder based on MDI/TDI mix.

### Properties

- high mechanical resistance
- low viscosity
- high flexibility
- solvent free
- wide range of adhesion

### Application

TETRAPUR 144 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, IIS, IV, IVS, WS and TETRAPUR PZ surfaces. For the best results, it is recommended to use TETRAPUR 144 at a temperature of 7° C to 30° C.

### Technical data

|                                   |                               |                                     |
|-----------------------------------|-------------------------------|-------------------------------------|
| DENSITY                           | at 23°C                       | ~1,08 g/cm <sup>3</sup>             |
| VISCOSITY                         | at 23°C                       | 2500 ± 500 mPas                     |
| NCO CONTENT                       |                               | 10,0 ± 0,5%                         |
| COLOUR                            |                               | light yellow, transparent           |
| READY FOR FOOT TRAFFIC            | at 10°C<br>at 20°C<br>at 30°C | 24 - 48 h<br>18 - 30 h<br>12 - 24 h |
| SUBSTRATE AND AMBIENT TEMPERATURE |                               | 7 - 30 °C                           |
| PERMISSIBLE RELATIVE HUMIDITY     |                               | 40 - 90 %                           |
| WORKING LIFE                      | at 20°C<br>humidity 50 %      | 2 h                                 |
| MONOMER TDI CONTENTS              |                               | max 0,5%                            |
| PACK SIZE                         |                               | 220 kg                              |
| TYPE OF PACK                      |                               | metal drum                          |



### Product preparation

TETRAPUR 144 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 144: 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 144 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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