

I. CHEMICAL BASE / APPLICATIONS

Single-component polyurethane which hardens with the humidity of the air.
Polyurethane binder with permanent flexibility.
Formula adapted to the creation of children's playgrounds and to the laying of safety floors.
Modified diphenylmethane diisocyanate (MDI) (8-9%)
0% TDI

II. HARDENING

The process starts at ambient temperature by a reaction with water vapour or with atmospheric humidity.
A higher temperature and a high humidity rate shorten the setting time.
Total hardening time is between 3 and 5 days.
During the hardening, the temperature should not fall below + 10°C.

III. APPLICATION

For playgrounds and safety floors, the rubber granules must be mixed for at least 3 to 5 minutes in a suitable mixer.

The end quality of the surface laid will also depend on the right choice of EPDM and SBR aggregate to be used. Non-compatible aggregate can affect or even prevent the drying process.

You must therefore make sure that the rubber granules are fully compatible with the binder, that they are dry before use and have consistent particle size, i.e.:

- A low rate of dust
- The lowest possible percentage of fines

Important note for the laying of playground surfaces:

PU 95 consists of aromatic polyisocyanate the colour of which can be affected by light.

The film is not therefore UV-resistant and can have an effect on the colour when using light-coloured EPDM granules.

IV. RECOMMENDATIONS FOR USE

A primer must be applied depending on the type and state of base.

V. RISKS

Can cause irritation by inhalation.

VI. FIRST AID

In the event of contact with the eyes:

Rinse thoroughly with clean water while keeping eyes open. Consult a doctor (or a specialist) immediately.

In the event of contact with the skin:

Wash with soap and rinse thoroughly with clean water.

In the event of ingestion:

DO NOT provoke vomiting, consult a doctor immediately.

If a high concentration of the product vapour is inhaled:

If the person has difficulty breathing, consult a doctor immediately.

Otherwise, cover the person well, take him/her out in the fresh air and then allow the person to rest.

VII. FIRE PRECAUTIONS

Extinguishing equipment:

CO₂, foam, dry powder. If the fire is large, spray with water. If the product is burning, fire fighters must wear a respirator (risks linked to carbon monoxide, nitric oxide and isocyanate vapours)

Models, drawings and names are registered. No copy or reprography is permitted without prior written authorization.
This manual was reviewed in February 2016 and may be updated; please make sure this is the latest version.

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VIII. MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

Cover with a damp material such as sand, sawdust, calcium-silicate-hydrate-based chemical binder. Transfer into a waste container after approximately 1 hour and do not close (formation of CO₂!). Keep humid and exposed to the air in a safe place for 7 to 14 days. The waste can then be destroyed or disposed of in a special dump.

IX. HANDLING AND STORAGE

Storage

The product must be protected from humidity and stored at a temperature higher than + 10°C and lower than 30°C.

Stability

Vacuum tight; kept in the original packaging between 15/25°C in a dry place and protected from frost: 6 months.

Once opened, the products must be used quickly.

In all areas in which MDI aerosols and/or vapours are concentrated, ventilation must be provided so as to remain within the Occupational Exposure Limit (OEL).

The premises must be aired for the personnel handling the product. The efficiency of the ventilation systems must be regularly checked.

Explosion protection is not required.

X. EXPOSURE CONTROL / PERSONAL PROTECTION

Refer to chapter 16 for exposure control.

Wear suitable protective clothing, gloves and protection for the face and eyes.

Breathing protection:

Required in poorly ventilated premises.

If the product is sprayed, wear an air-fend mask or (for short periods only) the combination of a carbon filter and a particulate filter mask (both types of mask must be approved by the Health and Safety Executives).

Precautions:

Immediately remove all contaminated clothing.

Store work clothes separately.

Wash hands at each break and when the work is finished.

XI. PHYSICAL AND CHEMICAL PROPERTIES

1. Form: Liquid
2. Colour: Clear/Pale yellow
3. Odour: Aromatic
4. Solidification point: 18°C
5. App density: 1,1g/cm³ at 20°C
6. Vapour pressure: <0.00001mbar at 20°C
7. App viscosity: 3,500 cP at 25°C
8. Water solubility: insoluble
9. P.H.: not applicable
10. Flash point: above 200°C
11. Fire point: above 500°C
12. Explosion limit: not determined

XII. STABILITY AND REACTIVITY

Thermal decomposition:

Polymerizes at approximately 230°C with evolution of the CO₂.

Dangerous decomposition of the product:

No dangerous decomposition of the products when they are correctly stored and handled.

Dangerous reactions:

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Exothermic reaction with amines and alcohols.

The product reacts to water by forming CO₂; in closed recipients, risk of bursting due to the build-up of pressure.

XIII. TOXICOLOGICAL INFORMATION

EEC classification: HARMFUL

XIV. SUMMARY

This product is irritant for the airways.

Repeated inhalation of the vapours at levels above the OEL can cause sensitization of the airways.

Effects on the eyes:

Cause of slight reddening and swelling of the conjunctiva and slight reversible haze of the cornea.

Effects on the skin:

Extensive contact with the skin can cause irritations. Brown marks can also appear.

Effects on the respiratory system:

Concentrations of aerosol / vapours at levels two times higher than the OEL can irritate the mucous membranes of the chest and cause breathing difficulties and headaches in some cases. Allergic symptoms or reactions can appear later in sensitive people.

Effect on humans:

If the product is correctly handled and industrial health precautions are respected, there is no known harmful effect on health.

XV. ENVIRONMENTAL INFORMATION

Immiscible in water.

Reacts to water by producing CO₂ and by forming a solid, insoluble product with a high melting point (polyurea). This reaction is accelerated by surface active agents (such as detergents) or by water-soluble solvents. Experiments have shown that the polyurea is inert and non-degradable.

XVI. INFORMATION ABOUT TRANSPORT

The United Nations committee of experts on the carriage of dangerous goods agreed to remove the UN2489 Diphenylmethane - 4,4'-diisocyanate from division 6.1 at the 18th session from 28 November - 7 December 1994. It is no longer necessary to use Hazchem vehicles and qualified staff to transport this product.

Manufactured by Stockmeier Urethanes France SAS

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