Addocat® 105

**Function**
Catalyst for the production of polyurethanes, e.g. flexible slabstock foam, hot moulded foam, HR foam, filling foam, integral skin foam, rigid foam and polyurethane coatings, elastomers and other products.

**Product description**
- **Chemical composition:** solution of triethylene diamine in dipropylene glycol
- **Physical form:** colourless to yellowish, clear liquid
- **Density (20 °C):** 1.03 g/cm³
- **Viscosity (20 °C):** approx. 148 mPa.s
- **Initial boiling point:** 198 °C
- **Pour point:** approx. -33°C
- **Flash point:** 92 °C
- **(DIN EN 22719, ASTM-D 93)**
- **OH-value:** approx. 560 mgKOH/g
- **Miscibility with water:** unlimited
- **Water content:** max. 0.5 %
- **TEDA content:** 33.3 ± 0.5 %

**Product information**
Addocat 105 is one of the standard catalysts for polyurethanes. In foam production it activates both the gas reaction and the crosslinking reaction.

- **Flexible polyether foam:** In the production of polyether slabstock foam and hot-moulded foam Addocat 105 serves mainly to promote the gas reaction (0.3 - 0.45 p.b.w. on 100 p.b.w. polyol). It is used together with Addocat SO (0.1 - 0.3 p.b.w.), which activates the crosslinking reaction.

- **HR-foam (moulded and slabstock foam):** Here the reaction can be controlled with Addocat 105 (0.3 - 1.0 p.b.w. on 100 p.b.w. polyol) in combination with Addocat 108 (0.1 - 0.5 p.b.w.).

- **Filling foam:** In the production of semi-rigid filling foams it has been found advisable to use triethanol amine (up to 4.0 p.b.w.) in addition to Addocat 105. This improves the open cell structure.

- **Rigid foam:** Addocat 105 gives rigid foams a tough and elastic skin, thus improving the adhesion of the foam to flexible and rigid facings. Addocat 105 can be used alone, but also in combination with Addocat 726 b and Addocat PP. Dosage: 1.0 - 3.0 p.b.w. on 100 p.b.w. polyol.
Applications:
- Continuous and discontinuous production of sandwich panels.
- Discontinuous cold/heat insulation of refrigerators and piping.
- On-site casting.

Integral skin foam (flexible, semi-rigid, rigid):
In the production of integral skin foam Addocat 105 (1.0 - 2.0 p.b.w.) is used together with Addocat 201 (0.02 - 0.05 p.b.w.). Combinations of the two activators reduce the demoulding times.

Cold-curing cast elastomers:
In the production of cold-curing cast elastomers Addocat 105 (0.1 - 0.5 p.b.w.) is used wherever relatively long filling times are desired.

### Packing
- Metal cans, contents 50 kg
- Metal drums, contents 190 kg
- Plastic-IBC, contents 1000 kg

### Storage stability
When Addocat 105 is stored in firmly closed containers, a shelf life of 12 months can be expected.

### Handling
Consult material safety data sheet (MSDS) for additional handling information for Addocat 105.

® = registered trade mark

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