

ISOMAT PU-FOAM PROFESSIONAL

Polyurethane foam, gun-grade

Description

ISOMAT PU-FOAM PROFESSIONAL is a moisture-curing, self-expanding, one-component, gun-applied, polyurethane foam. It provides excellent adhesion to most common building materials, including wood, plaster, concrete, stone, metal, etc. while offering thermal and sound insulation properties along with resistance to moisture and aging.

Fields of application

ISOMAT PU-FOAM PROFESSIONAL is suitable for mounting and sealing gaps around door and window frames, for filling holes, voids and cavities, for filling around pipe penetrations in walls, etc.

Technical data

Base:	polyurethane
Color:	yellow
Density:	12-16 kg/m ³
Tack-free time: (TM 1014-2013)	12 min (+20°C, R.H. 60%)
Cutting time (2 cm diameter strip): (TM 1005-2013)	max. 25 min (+20°C, R.H. 60%)
Final curing time:	12 h (+20°C, R.H. 60%)
Dimensional stability: (TM 1004-2013)	max. ± 5% (+20°C, R.H. 60%)
Reaction to fire: (DIN 4102)	B3
Compressive strength: (TM 1011:2015)	22 kPa (wet) 27 kPa (dry)
Tensile strength: (TM 1018:2015)	107 kPa (wet) 90 kPa (dry)
Shear strength: (TM 1012:2013)	205 kPa (wet) 162 kPa (dry)

Yield (2 cm wide strip) :	70 ± 5 m (+20°C, R.H.60%)
Yield: (TM 1007-2013)	36-40 l (+20°C, R.H.60%)
Application temperature:	from +5°C to +35°C

Directions for use

1. Substrate preparation

The substrate must be clean, free of dust, loose particles, grease, oil etc. and dampened prior to application.

2. Application

The can should be shaken vigorously for at least 1 min before use. Then the cap must be removed, and the can screwed onto the special gun. The can should be held upside down, making sure the valve is facing downwards while dispensing. The foam flow can be regulated by applying different pressure on the gun trigger. Care must be taken not to overfill the joints as the foam expands during curing. Joints up to 5 cm wide should be filled in multiple layers with a maximum width of 2 cm each. Fresh foam should be sprayed with water after application to stop post-expansion. In the event of long interruptions of use, the can should be shaken again. The application gun must be cleaned immediately after use with ISOMAT PU-FOAM CLEANER.

Consumption

One can yields up to 36-40 l of cured foam, but the exact volume depends on application conditions (temperature, humidity, space available for expansion, etc.).

Packaging

750 ml cans.

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Shelf life – Storage

18 months from production date, stored in an upright position with the valve facing upwards, in dry and well-ventilated areas, at temperatures between +5°C to +25°C.

Remarks

- The optimal can temperature for application is +15°C to +25°C.
- Cured foam must be protected from prolonged UV light exposure.
- Fresh foam can be removed with ISOMAT PU-FOAM CLEANER, while cured and hardened foam can be removed only mechanically.
- Volume and quality of cured foam is affected by relative air humidity. Intensive moistening is necessary when relative humidity is below 35%.
- ISOMAT PU-FOAM PROFESSIONAL does not adhere to polyethylene (PE), polypropylene (PP), Teflon (PTFE) and silicone.
- Protective glasses and gloves should be used during application. For more information, please refer to the relevant Safety Data Sheet (MSDS).
- Consult the directions for safe use and precautions written on the packaging before use.

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