



Product code : 50105N

ISOLEMFI 50105N MONO

DESCRIPTION

ISOLEMFI 50105N MONO is a fast moisture curing one-part polyurethane-based adhesive.

AREAS OF APPLICATION

ISOLEMFI 50105N MONO is specially designed for manufacturing of sandwich panels (caravan, technical floors, building cladding panels).

ISOLEMFI 50105N MONO can be used to bond hard insulating foams like PU, extruded or expanded polystyrene, or panels from mineral wool on plaster boards (with or without vapour shield), fibre cement, wood, steel or aluminium sheets for production of partition walls and thermal insulation elements.

For difficult materials, particularly galvanized steel, raw aluminium, polyester, hard PVC, it is necessary to make tests beforehand.

TECHNICAL DATA

Colour	Red
Viscosity at 20 °C	Brookfield RVT / spindle 3 / 10 rpm : 4,000 ± 1,000 mPa.s
Density at 20 °C	1.125 ± 0.010
Conventional solids content (EN 827)	Ca. 100 %
Open time at 20 °C	10 min*
Pressing time at 20 °C	30 min*
Pressing time at 40 °C	12 min*
Final setting time at 20 °C	6 h*
Calorific power	31 MJ/kg
Temperature resistance of the assemblies	-40 to +100 °C
Cleaner	EMFINET 683 before setting (highly flammable)

* in case of water mist spraying upon the layer of the adhesive

INSTRUCTIONS FOR USE

Substrates preparation :

The substrates to be assembled must be flat, dry, dust free and not have any traces of grease or other contaminants that could adversely affect the bonding performance.

They may be cleaned with EMFINET 683 or methylethylketone (MEK). Solvents must comply with local regulations.

Check the compatibility of the solvent used with the substrates.

If necessary, rub down metal surfaces beforehand. Clean them after rubbing down.

When using solvents, extinguish all sources of ignition and carefully follow the safety and handling instructions given by the manufacturer.

ADVICE

See also material safety data sheet



Application :

ISOLEMFI 50105N MONO can be applied on one of the substrates to be bonded by spraying with a pneumatic gun, with a roller or by extrusion.

If both substrates are non porous, it is imperative to spray a light water mist (10 to 15 g/m²) onto the adhesive film. Assembling has to be followed by a uniform and maximum pressure applied across the entire surface without irreversible deformation of substrates.

The setting time depends on hygrometry and temperature. So it is necessary :

- in case of working under 20 °C : to be sure that the pressing time is long enough
- in case of working over 20 °C : to be sure that open time and closed assembly time are not excessive

Otherwise, defective bonding could happen.

Cleaning :

Tools can be cleaned with EMFINET 683, MEK or acetone before the adhesive has completely cured. After curing, abrasion is necessary.

CONSUMPTION

100 to 150 g/m² according to the method of application and the materials to be bonded

STORAGE AND SHELF LIFE

9 months in closed original packaging stored in dry premises between 10 and 25 °C

PACKAGING

6 and 30 kg cans ; 60 and 220 kg drums ; 1100 kg containers

SAFETY

Harmful. Read material safety data sheet before use.

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired.

Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.