



Product code : 50105D

ISOLEMFI 50105D MONO

DESCRIPTION

ISOLEMFI 50105D MONO is a one-component polyurethane-based moisture curing adhesive.



AREAS OF APPLICATIONS

ISOLEMFI 50105D MONO is mainly intended for the manufacturing of sandwich panels (caravans, motorhomes, technical floors, wall panels, building cladding panels).

ISOLEMFI 50105D MONO is used for the bonding of various insulating materials like polyurethane foam, expanded or extruded polystyrene, etc. on wood, steel or aluminium sheets, certain plastics.

The cured film presents a very good behavior to heat as well as a good behavior to hydrolysis.

ISOLEMFI 50105D MONO must not be used in toys and childcare articles which can be placed in the mouth by children.

TECHNICAL DATA

Color	Brown
Viscosity at 20°C	Brookfield RVT 3 / 10 rpm: 4,000 ± 1,000 mPa.s
Density at 20°C	1.125 ± 0.010
Open time at 20°C	2 h *
Pressing time at 20°C	8 h *
Final setting time at 20°C	48 h *
Caloric value	31 MJ/kg
Temperature resistance	-40 à +100°C
Cleaner	EMFINET 683 before setting (highly flammable)

* with misting of water on the adhesive layer

INSTRUCTIONS FOR USE

Substrates preparation:

The substrates to be bonded must be even, dry, dust free and not have any traces of grease or other contaminants that could harm bonding.

If the substrates need to be cleaned, use EMFINET 683, methylethylketone (MEK) or acetone. For materials sensitive to ketones, use ethanol.

Check their compatibility with the substrates.

If necessary, rub down metal surfaces beforehand. Clean them after rubbing down. Allow to dry after degreasing.

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

Application:

ISOLEMFI 50105D MONO is to apply on one of the substrates to be bonded by spraying with a pneumatic gun, by extrusion

or with a roller.

Distribute evenly over the entire surface and press to ensure a perfect contact between substrate and adhesive. Exert the maximum possible pressure without deforming the material in an irreversible way.

One of the substrates to be bonded must be porous or contain moisture. If both substrates are non-porous, it is imperative to spray a light water mist on the adhesive (10 to 15 g on 100 g adhesive) before pressing.

The setting time depends on hygrometry and temperature.

It is therefore imperative:

- in case of working under 20°C: to ensure that pressing time is sufficient;
- in case of working over 20°C: to ensure that open time and closed assembly time are not excessive.

Otherwise, defective bonding could happen.

Cleaning:

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

CONSUMPTION

100 to 150 g/m² depending on application method and materials to be bonded.

STORAGE AND SHELF LIFE

12 months in closed original packaging stored at a temperature below 25°C.

In cold weather, store the packaging at about 20°C before use.

Keep out of reach of children.

PACKAGING

5 kg metal cans, 60 and 220 kg metal drums.

1,100 kg containers.

Contact us for other packaging options.

SAFETY

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.