

SIPMOUSSE 50 LIGHT

The resin SIPMOUSSE 50 LIGHT is a ready to use non-filled polyols polyether mix, without CFC nor substitutes (HCFC nor HFC). When mixed with the HARDENER MS, it allows the realization of a very expanded polyurethane foam (about 18 times), hard and flexible, soft and thick, with a density of about 55 g/L.

Finally, for a specific external finishing (smooth or grainy surface, stain-smooth or mat) or if water tightness is needed (the soft foams like this one have open cells and thus react like sponges), the foam can be coated with our ERGOPEAU finishing paint. This will bring a soft, resistant and waterproof skin that can be tinted.

Implementation

The resin/hardener mixing ratio is 100/80.

The only expending agent is the CO₂ that is produced by the reaction between the isocyanate and the water.

This system can be implemented either manually (mixed with an adapted mixer at 2 000 or 3 000 rpm), or with Low Pressure or High Pressure machines.

After complete hardening, the foam can be easily worked on a router or with abrasive bands (coarse-grained preferably), and can be cut with bandsaw or blade saw, without tooth.

Its viscoelasticity has the «fast return» characteristic. Thanks to that, it is very resistant to the crushing and the sinking through the time.

Reactivity

TIMES	DURATION*
Expansion start time	≈ 30 sec
Expansion end time	≈ 2 min 30
Demoulding time	≈ 1 h
Full hardening time	≈ 24 h

(*) measurements made at 20 °C on 50 g of mixture



Characteristics of the polymerized product

Hardness Shore 00: approx. 35

Density g/L: approx. 55

Expansion: x18

Characteristics of the components

SIPMOUSSE 50 LIGHT:

- Chemical basis: polyols polyether mix
- Expansion agent: CO₂
- Color: whitish
- Viscosity at 20°C: 500 to 1 000 mPa.s
- Density at 20°C: 1 030 to 1 050 g/L
- Filler: none.

HARDENER MS:

- Description: 4,4' diphenylmethane diisocyanate based polyisocyanate (polymeric MDI)
- NCO rate (%): 24 to 25
- Density at 25°C: 1700 g/L
- Flash point: > to 200° C
- Viscosity at 25°C: 300 to 320 mPa.s
- Color: yellow-brown
- Sediments: < to 0.1%

Storage and packaging

The products are guaranteed 18 months if they are stored between 15°C and 25°C in sealed drums in a dry place.

STORAGE	SIPMOUSSE 50 LIGHT
Plastic drum, 2 kg	MSH R02
Plastic drum, 5 kg	MSH R05

STORAGE	HARDENER MS
Plastic drum, 2 kg	DMS 002
Plastic drum, 5 kg	DMS 005

Customs' codes

SIPMOUSSE 50 LIGHT	39072020
HARDENER MS	38249992