

SIPMOUSSE 70/30 MEDIUM

The resin SIPMOUSSE 70/30 MEDIUM is a ready to use non-filled polyols polyether mix, without CFC nor substitutes (HCFC or HFC). When mixed with the HARDENER MS, it allows the realization of a very expanded polyurethane foam, soft and flexible, thick, with a density of about 80 g/L.

The resin SIPMOUSSE 70/30 MEDIUM can be tinted with our coloring pastes for PU.

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 an ERGOPEAU finishing paint. This will bring a soft, resistant and waterproof skin that can be tinted.

Applications in prosthetic and orthotic: corset-seat, foam beds, injected cosmesis...

Implementation

The resin/hardener mixing ratio is 100/56.

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	≈ 45 min
Full hardening time	≈ 24 h

(*) measurements made at 20 °C on 150 g of mixture



Characteristics of the polymerized product

Hardness Shore 00: approx. 20

Density g/L: approx. 80

Expansion: x12

Characteristics of the components

SIPMOUSSE 70/30 MEDIUM:

- Chemical basis: polyols polyether mix
- Expansion agent: CO₂
- Color: translucent, colorless
- Viscosity at 22°C: 1 000 to 1 500 mPa.s
- Density at 22°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 70/30 MEDIUM
Plastic drum, 2 kg	MSL R02
Plastic drum, 5 kg	MSL R05

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

Customs' codes

SIPMOUSSE 70/30 MEDIUM	39072020
HARDENER MS	38249992