

FORMOUSSE 450

FORMOUSSE 450 of the FORMOUSSE range is a ready-to-use polyol, expanded with water, without CFC nor substitute. It is aimed to the molding of polyurethane foam parts, with an average density around 450 g/L and a hardness of about 55 Shore D.

The two-components system FORMOUSSE 450 - HARDENER MD has an excellent moldability. The resulting foam has a very thin cellular structure, a very good dimensional stability and a fast demolding time.

Implementation

The resin/hardener mixing ratio is 100/100.

This system can be implemented either manually (mixed with an adapted mixer at 2.000 or 3.000 rpm), or with Low or High-Pressure machines.

Reactivity

If the temperature of the components is around 20°C, the foaming characteristics are the following:

PARAMETERS	DURATION*
Expansion start time	≈ 1 min
Tack-free time	≈ 2 min
Demolding time	≈ 10 min
Full hardening time	≈ 24 h

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

Characteristics of the components:

FORMOUSSE 450:

- Chemical basis: polyols polyether mix
- Expansion agent: H₂O
- Color: transparent
- Viscosity at 20°C: 300 to 500 mPa.s
- Density at 20°C: 1 030 to 1 050 g/L
- Filler: none

HARDENER MD:

- Description: 4,4' diphenylméthane diisocyanate based polyisocyanate (polymeric MDI)
- NCO rating (%): 30 to 31
- Density at 25°C: 1 235 g/L
- Flash point: > to 200° C
- Viscosity at 25°C: 200 to 230 mPa.s
- Color: brown, more or less dark depending on the batches
- Sediments: < to 0,1%.



Characteristics of the polymerized product

Hardness Shore D: approx. 55

Density g/L: approx. 450

Expansion: x2.2

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	FORMOUSSE 450
Plastic drum, 2 kg	FRB 402
Plastic drum, 5 kg	FRB 405
Metal drum with 2 plugs, 60 kg	FRB 460

STORAGE	HARDENER MD
Plastic drum, 2 kg	DMD 002
Plastic drum, 5 kg	DMD 005
Metal drum with 2 plugs, 60 kg	DMD 060

Customs' codes

FORMOUSSE 450	39072020
HARDENER MD	39093100