

EPO PU FOAM SPRAY 40

Spray Polyurethane Foam System



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DESCRIPTION

EPO PU FOAM SPRAY 40 is a two component polyurethane system developed for the manufacture of polyurethane foam to be used as insulation for roof applications and gypsum panel.

EPO PU FOAM SPRAY 40 PART A: Spray polyurethane foam system for the production of foam with closed cells. It is blend of special polyols and other additives.

EPO PU FOAM SPRAY 40 PART B: Polymeric diphenyl methane diisocyanate

PRODUCT DATA

Properties	PART A	PART B
Country of Origin	Spain	Turkey
Specific Gravity @25°C (g/cm ³)	1.05 - 1.10	1.23
Viscosity @25°C (mPas)	300 - 400	200 - 260
NCO Content (%)	-	31.5
Hydroxyl Number (mgKOH/g)	300-380	-
Packing	250 Kg	220 Kg
Shelf Life	12 months under sealed and controlled conditions	

TYPICAL REACTION PROFILE

Mixing Ratio	PART A : PART B 1 : 1
Cream Time	3 – 5 seconds
Gel Time	9 – 11 seconds
Free Rise Density	30 – 33 Kg/m ³
Applied Density	38 – 41 Kg/m ³

PROCESS CONDITIONS

Machine Pressure	60 – 100 bar
PART A Temperature	35 – 45 °C
PART B Temperature	35 – 45 °C

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Density	ASTM D 1622	40 ± 2 Kg/m ³
Compressive Stress (%10)	ASTM D 1621	180 ± 30 kPa
Thermal Conductivity	ASTM C 518	0.024 W/mK
Closed Cell Content	ASTM D 6226	≥ 90 %
Tensile strength	ASTM D 412	> 0.28 Mpa
Elongation At Break	ASTM D 412	> 2 %
Pull Off Strength (Concrete surface)	ASTM D 4541	> 0.15
Pull Off Strength (Steel surface)	ASTM D 4541	> 0.26

STORAGE

Polyurethane Systems are quite sensitive to humidity and temperature thus it is necessary to act according to the recommendations. Polyurethane Systems must be agitated before use.

PRECAUTIONS

Protective eye wear, gloves, clothes and boots must be worn during production. Must be refrained from contact with skin. In case of contact with eyes and skin or consumption through mouth or nose, effected area must be washed thoroughly with large amount of water for a minimum of 15 minutes. Medical care should be provided right after to prevent any possible damage.

DISPOSAL

It is applicator's responsibility to minimize the amount of waste material and dispose the waste according to local regulations.



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