



MANALI PETROCHEMICALS LIMITED

TECHNICAL DATA SHEET

EMPEYOL PST 200/1

Revision No. : 2.1

Date of Issue: April 2015

PRODUCT DESCRIPTION :

EMPEYOL PST 200/1 is an eco-friendly CFC free formulated polyether polyol to be used in combination with **Millionate MR 200** or equivalent isocyanate for the production of polyurethane rigid foams for appliance applications. The blowing agent Cyclopentane is to be blended at the customers end.

PROPERTIES OF THE POLYOL :

Colour and appearance	Brown liquid
Viscosity at 25° C (cps)	6000 ± 750
Sp.gravity at 25° C	1.15 ± 0.05

RECOMMENDED PROCESSING CONDITIONS :

Mixing ratio [Polyol : CycloPentane] : 100 : 15.5 : 146
Isocyanate Millionate MR 200 or equivalent]

Temperature (°C)	
Polyol	20 ± 02
Isocyanate	20 ± 02

REACTION PROFILE USING HIGH PRESSURE MACHINE AT PRESSURE 140 + 10 BAR

Cream time (seconds)	10 ± 02
Gel time (seconds)	50 ± 10
Tack free time (seconds)	65 ± 05
Free rise density (kg/cu.m)	23.0 –25.0 200 – 220

PROPERTIES OF THE FOAM:

Core density (kg/cu.m)	32.0 (minimum)
Compressive strength (psi)	20.0 (minimum)
Dimensional stability (%)	
@ - 30 °C for 24 hrs	0.5% (maximum)
@ 70 °C for 24 hrs	0.5 % (maximum)
K value @ 24.0 °C (BTU/hr.ft ² -F ⁻¹)	0.14 (maximum)



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PACKING SIZE	210 kg Nett
<u>HANDLING & STORAGE :</u> EMPEYOL PST 200/1 and MILLIONATE MR 200 (or) EQUIVALENT ISOCYANATE should be stored in tightly closed containers at temperature between 20°C and 30°C and should not be exposed to direct sunlight.	
SHELF LIFE : 6 months.	
<u>HEALTH & SAFETY ADVICE :</u> EMPEYOL PST 200/1 and Millionate MR 200 or equivalent isocyanate should present no hazard in manufacturing operations where satisfactory standards of personal and industrial hygiene are maintained. Precautions should be taken to avoid exposure to the eye or prolonged contact with skin.	

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