



**SYNERGY ADDITIVES UNIT-II**  
( PU- System House )

**TECHNICAL DATA SHEET**

**POLYNOL – PU510 / PUR (CFC&HCFC FREE) FORMULATED POLYETHER POLYOL**

Specially developed for the production of Elastomeric Polyurethane for SAEL LEAKING CRAKS , VOIDS OR FRACTURE IN CONCRETE STRUCTURE .

**POLYNOL -5U510/PUR** is fully catalysed system, which can be used on high/ low pressure machine. The above system gives rapid cure, excellent flow property, elongation and water proofing property when used with Isocyanate – MDI

**Typical Chemical Properties :-**

Property	Unit	Standard
OH Value	mg KOH/gm.	300- 350
PH Value	-	9 - 11
Viscosity @ 25	Cps	500-650
SPGR @ 25	-	1.1 – 1.15

Ratio : **POLYNOL – PU510 /PUR** - **100 by volume**

**POLYNATE-803 ( MDI** - **100 by volume**

Temperature of component	-	25 Deg.
Cream time	-	55 - 60 sec.
Gel time	-	160-170 Sec
Rise time	-	250-300
Polyol stability	-	4 months

**Foam properties :-**

Tensile strength ( ASTM-D-638 )	Mpa	1.17-1.18
Elongation ( ASTM D-638 )	%	400
Moulded density (ASTMD -1622-63	Kg/m3	60-65
Final cure	Day	01
Expansion ( Without water )	Percentage	Up to 16 times
Expansion ( with water )	Percentage	Up to 20-25 times
Elongation at break	Percentage	3-5

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