

# NEW toughen and elastic polyurea systems

August 2011

<b>RenCast 6425 A</b> (Isocyanate, LME 10709 non coloured)		100		75	50	25	
<b>RenCast 6427 A</b> (Isocyanate)				25	50	75	100
<b>LME 10709</b> (Isocyanate)	100		100				
<b>RenCast 5425 B</b> (Amine)		24	24	18	12	6	
<b>RenCast 5427 B</b> (Amine)				5	10	15	20
<b>LME 10744</b> (Amine)	80						
<b>Process</b>	gelcoat	casting	casting	casting	casting	casting	casting
<b>Coloure</b>	green	brown	clear, yellowish	clear, yellowish	clear, yellowish	clear, yellowish	clear, yellowish
<b>Mix viscosity [mPa.s]</b> (25°C, spindel 3, 6 rpm)	thixotrope	1900 - 2100	1900 - 2100	2000	1700	1000	1200 - 1300
<b>Pot life [min]</b> (25°C/ 1kg)	15 - 20	15 - 20	15 - 20	15 - 20	20 - 25	25 - 30	35 - 40
<b>Shore D (24h/RT+14h/40°C)</b>	<b>60 - 65</b>	<b>60 - 65</b>	<b>60 - 65</b>	<b>50 - 55</b>	<b>40 - 45</b>		
<b>Shore A (24h/RT+14h/40°C)</b>					<b>90 - 95</b>	<b>80 - 85</b>	<b>70 - 75</b>
<b>Tear propagation resistance [kN/m]</b> (100mm/min size: 100*50*4)		28 - 30	28 - 30	23 - 25	15 - 16	8 - 9	5 - 6
<b>Tensile ISO 527-2</b>							
Strength max [Mpa]		30 - 35	30 - 35	18 - 21	15 - 17	7 - 9	5 - 6
Elongation at break [%]		130 - 170	130 - 170	130 - 170	180 - 200	130 - 190	200 - 250
<b>Taber [mg]</b> (4000 cycles, 60rpm, 2*1kg load, P 60 sandpaper strips)	1400	1600	1600	4800			
<b>Linear shrinkage [mm/m]</b> (test specimen size 500*50*10 mm)		1.8	1.8				

