

DESCRIPTION

Two components PU elastomer designed to make ceramic case moulds by hand casting.

PROPERTIES

- Easy sanding after curing
- Long pot life
- Solvent free
- Chemical resistance to release agents

PHYSICAL PROPERTIES				
Composition		POLYOL UR 7855	ISOCYANATE UR 7801	MIXED
Mix ratio by weight		100	50	
Mix ratio by volume at 25°C		100	80	
Aspect		liquid	liquid	liquid
Colour		orange	amber	Light apricot
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	6.000	800	3,000
Specific gravity at 25°C (g/cm ³)	ISO 1675 : 1985	1.63 -	1.02 -	- 1.36
Pot life at 25°C on 150 gr. (min)	Gel Timer TECAM			30

MECHANICAL PROPERTIES at 23°C (1)			
Hardness		ISO 868 : 2003	Shore A1 55
Tensile strength		ISO 37 : 2004	MPa 2.6
Elongation at break		ISO 37 : 2004	% 1,100
Tear strength <i>Unnotched angular specimens</i>		ISO 34 : 2004	kN/m 10

(1) : Average values obtained on standard specimens / Hardening 16 hr at 70 °C

PROCESSING CONDITIONS

Stir carefully polyol before use until both colour and aspect become homogeneous. Polyol and Isocyanate have to be mixed at a temperature higher than 18 °C according to the mixing ratio indicated on the technical data sheet.

Mix by hand with appropriate spatula or use a mixer for higher volumes. Let it settle for few minutes until bubbles from mixing rise up. It is not appropriate to degas in a vacuum chamber.

Demoulding at room temperature after 16 hours. Sanding is possible after 20 hours. Do not use for production of plaster moulds before 48 hours.

THERMAL AND SPECIFIC PROPERTIES (1)			
Working temperature	-	-	-40 / +80
Glass transition temperature (Tg)	ISO 11357 : 1999	°C	-85
Coefficient of thermal expansion (CTE) (+0 to +40 °C)	ISO 11359 : 1999	10 ⁻⁶ K ⁻¹	220
Linear shrinkage (specimen 250x50x3mm)	-	mm/m	-
Maximal casting thickness	-	mm	40
Demoulding time -at 23 °C	-	hours	16
Complete hardening time -at 23 °C	-	days	6

HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products :

- Ensure good ventilation,
- Wear gloves, safety glasses and waterproof clothes.

For further information, please consult the product safety data sheet.

STORAGE CONDITIONS

Shelf life for UR 7801 and UR 7855 is 12 months in a dry place and in original unopened containers at a temperature between 20 and 25 °C. Any open can must be tightly closed under dry nitrogen blanket.

PACKAGING

ISOCYANATE UR 7801	POLYOL UR 7855
1 x 5 kg	1 x 10 kg

GUARANTEE

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