

DESCRIPTION

PU elastomer designed to make moulds for concrete industry by hand casting or with a 2 K machine.

PROPERTIES

- Two-component liquid polyurethane resin
- High elongation at break
- Solvent and mercury free
- Good mechanical resistance

PHYSICAL PROPERTIES				
Composition		ISOCYANATE UR 5803	POLYOL UR 58480	MIXED
Mix ratio by weight		30	100	
Aspect		Liquid	Liquid	Liquid
Colour		Amber	Ochre	Ochre
Viscosity at 25 °C (mPa.s)	BROOKFIELD LVT	2000	1900	2000
Specific gravity at 25 °C (g/cm ³)	ISO 1675 : 1985	1.16	1.33	-
Specific gravity of cured product at 23 °C	ISO 2781 : 1996	-	-	1.31
Pot life at 25 °C on 130g (min)	Gel Timer TECAM			15 - 20

PROCESSING CONDITIONS

*Before any use, the POLYOL must be mixed until both colour and aspect become homogeneous.
POLYOL and ISOCYANATE have to be mixed together at a temperature higher than 18 °C according to the mix ratio indicated on this technical data sheet.
Before casting check that parts or models are free of any trace of moisture.*

MECHANICAL PROPERTIES at 23 °C (1)			
Hardness	ISO 868 : 2003	Shore A1	50
Tensile strength	ISO 37 : 2011	MPa	3.40
Elongation at break	ISO 37 : 2011	%	550
Tear strength <i>Unnotched angular specimens</i>	ISO 34 : 2004	kN/m	14
Abrasion resistance (TABER H 22)	ISO 5470 : 1999	mg / 100U	20

THERMAL AND SPECIFIC PROPERTIES (1)

Glass transition temperature (Tg)	ISO 11357 : 1999	°C	< 0
Maximal casting thickness	-	mm	80
Linear shrinkage (100 x 100 x 1000 mm)	-	mm	1
Demoulding time at 23°C	-	Hours	16
Complete hardening time at 23°C	-	Hours	96

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

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 of the Polyol part is 12 months and the Isocyanate part is 6 months, in a dry place and in their original unopened containers at a temperature between +15 and +25 °C

Any open must be tightly closed under dry nitrogen.

PACKAGING

ISOCYANATE UR 5803	POLYOL UR 58480
1 x 5 kg	1 x 16.7 kg

GUARANTEE

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