

Product Data Sheet

ISO-PUR K 750 / HDI 23-2000

Description:

ISO-PUR K 750 / HDI 23-2000 is an unfilled cold-curing 2-component polyurethane cast resin based on polyether- and -esterpolyols and precured aliphatic diisocyanates.

Coatings made from ISO-PUR K 750 / HDI 23-2000 form non-tacky, soft surfaces. The cast resin shows low viscosity while pouring. The cured product has a good adhesion to metals and many plastics. The hydrophobic resistance is excellent.

Technical Data:

resin	viscosity / 20 °C	app. 850 mPa s
	colour	transparent-opaque*
	density / 20 °C	1,0 g / cm ³
hardener	viscosity / 20 °C	app. 2000 mPa s
	colour	transparent
	density / 20 °C	1,2 g / cm ³
mixture	mixing ratio resin : hardener	2,5 : 1 pbw
	viscosity / 20 °C	ca. 1100 mPa s
	colour	transparent-opaque*
	density / 20 °C	1,0 g / cm ³
	potlife / 20 °C	Standard: App. 15 min *
	geltime / 20 °C	Standard: App. 20 min *
	max. temperature (200g, start at 20°C)	app. 50 °C *

* or on request

Continuation Technical Data ISO-PUR K 750 / HDI 23-2000

Properties of cured product (typical values):

mixing ratio resin : hardener	2,5 : 1 pbw
hardness	50 Shore A
temperature resistance	longtime: 130 °C shorttime: 200 °C
tensile strength	-
elongation at break	100 %
dielectric strength	> 30 kV/mm
dielectric strength while still liquid	> 8 kV/mm
dissipation factor $\tan \delta$ / 25 °C / 50Hz	0,007
dielectric constant ϵ / 25°C/ 50Hz	3,4
thermal conductivity	0,3 W/K m
thermal volume expansion coefficient	-
tracing resistance	KA 3 c
water absorption after 30 days / 23 °C	0,5 %
chemical resistance against mineral oil, 2 N H ₂ SO ₄ , CaCO ₃ solution	No visible degradation

Storage:

Store dry and well closed.

Processing:

Stir up resin component well. Then mix resin and hardener carefully in recommended ratio for 1 - 3 minutes (depending on size of mixture and potlife). The mixture has to be poured into the mould immediately after mixing. Air bubbles that have been stirred in the mixture can be removed before end of potlife by evacuating or by blowing hot air over the surface causing the bubbles to collapse.

Please see material safety data sheet for additional information.