Product Data Sheet

ISO-PUR K 764

Description:

ISO-PUR K 764 is a cold-curing 2-component polyurethane cast resin. The resin was developed for sealing wall breakthroughs (e. g. cable inlets) or similar geometrical layouts where a free flowing resin would simply flow away. After mixing resin and hardener a highly thixotropic material is formed immediately, which won't flow even on vertical surfaces. In a second reaction step the putty cures further, forming a hard material.

Cured samples of ISO-PUR K 764 are hard but still flexible (the system does not become brittle). The system shows low shrinkage while curing. ISO-PUR K 764 protects against corrosion and shows good adhesion to metal, ceramics and many plastics.

Technical Data:

resin	viscosity / 20°C	app. 4000 mPa s
	colour	pale brown*
	density / 20°C	1.4 g/cm³
hardener	viscosity / 20°C	app. 120 mPa s
	colour	brown
	density / 20°C	1.2 g/cm³
mixture	mixing ratio resin : hardener	4 : 1 pbw
	viscosity / 20°C	does not flow
	colour	pale brown*
	density / 20°C	1.4 g/cm³
	potlife / 20°C	app. 8 min
	max. temperature (200g, start at 20°C)	app. 60°C *

* or on request

This data sheet replaces previous issues. Edition: 17.11.16

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Properties of cured product (typical values):

mixing ratio resin : hardener	4 : 1 pbw
hardness	60 Shore D
temperature resistance	long-time: 140°C short-time: 200°C
tensile strength	24 N/mm^2
elongation at break	70 %
dielectric strength	21 kV/mm
dielectric strength while still liquid	> 7 kV/mm
dissipation factor tan δ / 25°C / 50Hz	0.02
dielectric constant ε / 25°C / 50Hz	4.3
thermal conductivity	0.45 W/K m
thermal volume expansion coefficient	$50 * 10^{-6} K^{-1}$
tracing resistance	KA 3c
water absorption after 30 days / 23°C	0.2 %
chemical resistance against mineral oil, 2n H_2SO_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 - 2 minutes until a homogeneous thixotropic mixture is formed. Process the material immediately after mixing.

Please see material safety data sheet for additional information.