

Flexible Cold Curing 2-Component Elastomer System

Preparation

When moulding with **diaflex** the form has to be coated with **DIAMANT Separator** before processing.

Processing

◆ Mixing

Pour the hardener component (brown) completely into the resin component (clear). Mix manually with a spatula or a drilling machine and a propeller mixer (ca. 2 min at max. 250 rpm).

◆ Mixing ratio by weight:

resin (clear) : hardener liquid (brown)
100 : 58

◆ Application

After mixing the material must be used immediately. If not an early gelification takes place.

◆ Ready mixture:

service life	(+25°C): 8 minutes
demouldable after	(+20°C): 24 hours
initial viscosity	(+25°C): ca. 1500 mPas
100% cured after	(+20°C): 7 days or 24 hours at room temperature

◆ and

heat treatment afterwards
(12 h at +40°C)

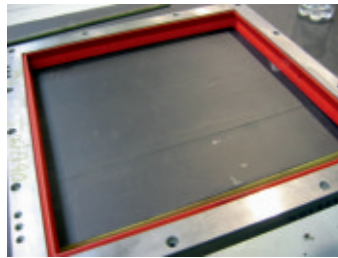
Advice:

diaflex can crystallize when stored inappropriate. By light heating and cooling afterwards the material will be serviceable again.

The working temperature must be min. +20°C / 68°F.

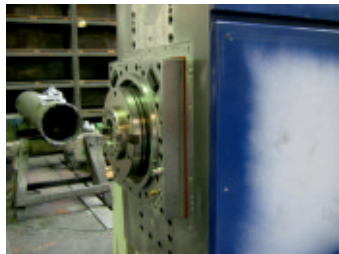
Technical Data	
tensile strength [N/mm]	approx. 14
hardness [Shore A] ISO 868	approx. 80
coefficient of thermal expansion [K ⁻¹]	100 x 10 ⁻⁶ - 140 x 10 ⁻⁶
temperature resistance (long-term) [°C]	-50 - +100
wear resistance [at 100 rpm] [in mg]	approx. 12
linearer shrinkage [%]	0,1
elongation [%] ISO 537	approx. 1200
density [g/cm]	1,1
colour [can be coloured e. g. red]	fawn

All material values are average values and vary due to mixing ratio, material quantity and environmental conditions. The mentioned material values are based on normal conditions (STP) of 20°C (68°F) and 1013mbar.



Production of machine wipers

diaflex is used to manufacture wipers and seals for machines. The cold curing material is resistant against oil and lubricants and shows very good permanent elasticity.



Typical Applications

Production of elastic
- sealings, sealing patterns, wipers, tool holders
- impact resistant coatings
- coatings for noise dampening



Product description

DIAMANT diaflex is a novel 2-component cold curing elastomer product with excellent resistance against wear, tear and chemical attacks. **DIAMANT diaflex** is used mainly to produce rubber-like articles, seals, rings, scrapers, wipers, tool fixtures and to repair / maintain surfaces worn by high wear.

Properties

- ◆ low processing viscosity
- ◆ high resistance against wear, tear and chemical attacks
- ◆ very good resistance against oils, grease and cooling lubricants
- ◆ cold curing

DIAMANT diaflex

#1512

Shelf Life

12 month

Pack Size cpl.

500g