

Nano-Seal 120 and 120M

Revised: 11.09.2017

General description:

Colorless liquid ready-for-use impregnant which penetrates into micropores by capillary forces. Seals leaks reliably due to its permanently elastic character. Contents solvents.

Specific properties:

- Fast curing at room temperature.
- Low viscosity
- Broad field of application.
- Very good adhesion on metal as well as on a variety of plastics.
- Permanently elastic.
- Good corrosion resistance.
- The polymer system of Nano-Seal 120 has been successfully tested by TÜV Germany for the tightness of gas valves DIN EN 161.

Application areas:

Nano-Seal 120 is used as impregnant for thermally sprayed coatings. Nano-Seal 120M with improved corrosion resistance and only slightly higher viscosity.

Technical data at 20°C:

Thermal resistance:

Softening of the polymer at about 120°C; thermal decomposition of the polymers above 220°C.

Chemical resistance at 20°C:

Acetone	3	Methylene chloride	4
Ketones(gen.)	3	Chlorin. hydrocarbons (gen.)	3
Gasoline	1-2	Motor oil	1-2
Cooling liquids	1-2	Dil. Sodium hydroxide	1-2
Esters (gen.)	2	Dil. Hydrochloric acid	1-2
Ethyl acetate	3	Dil. Sulphuric acid	1-2

1: fully resistant 2: short immersion possible
 3: resistant when immediately wiped off 4: not resistant

The list is not exhaustive. Please contact us for your specific requirements. We will advise you or will carry out testings in our laboratory.

Adhesion:

Mild steel	1-2	Cast iron	1
Stainless steel	1	Aluminium	1
Copper	2-3	Polyethylene	2
PA	1-2		

1: very good 2: good 3: medium 4: bad

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Viscosity:

Brookfield: < 20 mPas at 25°C (Nano-Seal 120)
Brookfield: 35 - 40 mPas at 25°C (Nano-Seal 120M)

Curing time:

2 h at 25°C: light load
12 h at 25°C: full load

The data serve as a rough guide as the curing depends strongly on the size of the pores and the thickness of the layer.

Delivery form:

Colorless low viscous liquid
Size of the cans: 1, 5 and 200 L
500 ml aerosol spray (only 120)

Shelf life:

2 years (storage below 30°C and ideally without exposure to light). Make sure that the can is always tightly closed.

Processing:

The product is ready for use.
Typical application modes are brushing, spraying or wiping.
Vacuum or pressure is not necessary.

- Make sure that the surface is free of oil, grease and staining.
- If necessary clean with acetone and dry thoroughly.
- Repeated application wet-in-wet for 15 min. Temperature of the surface at least 3°C above dew point. Avoid surfaces temperatures higher than 45°C.

Safety:

Make sure that there is good ventilation and avoid any source of ignition.
Read safety data sheet prior to use.

The technical data mentioned in this technical data sheet have to be regarded as rough guidelines. They have been obtained in our laboratory under optimal conditions. For the suitability of the product for specific applications we do not take the responsibility and we deny any liability. We recommend to do trials under conditions which reflect the individual practical application prior to the use of the material for the real application.