

Nano-Seal 180W

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Viscosity:

Brookfield: 180 mPas at 25°C

Curing time:

24 h at 25°C / 50 % rel. hum.: light load

48 h at 25°C / 50 % rel. hum.: full load

The data serve as a rough guide as the curing depends strongly on the size and the thickness and form of the walls to be impregnated.

Delivery form:

White liquid (which forms colorless transparent films upon curing)

Size of the cans: 1 and 5 L

Shelf life:

9 month (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 dipping of the model. Vacuum or pressure is not necessary.

- Cleaning of the model (preferably acetone) and drying at room temperature.
- Repeated brushing wet-in-wet or dipping for 15 min. Temperature of the surface at least 3°C above dew point.
- Filling of closed cavities (for instance cooling circuits); i.e. sealing from inside is also possible.
- Drying at room temperature. The drying time can be shortened by moderately elevating the temperature (at about 45°C) after the surface is touch dry. Afterwards up to 60°C. Make sure that the model withstands elevated temperatures.
- Repeated impregnation is possible as cured Nano-Seal 180W will not dissolve again.
- Dilution (5 or 3 parts of Nano-Seal 180 W and 1 part demineralized water) leads to thinner films and better penetration into small pores. Anyway, avoid too high amounts of water for dilution as the sealing performance decreases.
- Surface films should first be removed by flinging or centrifuging the part. Residual impregnant (i.e. in threads) can be removed by compressed air. Avoid to apply compressed air on jellified films as this incorporates small air bubbles in the film thus yielding streaks on the surface. Avoid also cold compressed air.
- Residual liquid impregnant in threads and the like can also be removed by dipping the part (after a first curing for 20 min) in demin. water and subsequent cleaning of the thread by compressed air or if possible by a cloth.

Safety:

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.