

ADINO SEAL HTR



TECHNICAL DATA SHEET

High temperature acetoxysilicone is one -component, elastic sealant curing under the influence of humidity from the air, intended for sealing and grouting joints and to protect against moisture.

APPLICATIONS

sealing cylinder heads of car engines
sealing of refrigeration, ventilation, heating and air conditioning systems
sealing and connecting in motors, powertrains, radiators and motor pumps
bonding and sealing in places exposed to high temperatures

BENEFITS

high temperature resistance
good adhesion to many smooth building materials
high resistance to UV radiation
fast curing rate
low shrinkage
permanent flexible joint
excellent chemical resistance

APPLICATION CONDITIONS

Application temperature [°C]	+5 - +40
Surface temperature [°C]	+5 - +40
Packaging temperature [°C]	+0 - +25

DIRECTIONS FOR USE

Prior to application, read safety instruction presented in MSDS.

1. SURFACE PREPARATION

- Bonding surfaces must be clean, dry (not frosted) free of dust, rust, old loose material, oil, grease, paint and other dirt which reduces the adhesion of the sealant.
- Surfaces best degrease with acetone or ethanol (glass, glaze, metal) or detergent (synthetic materials).
- To avoid dirtiness around the gap and to maintain equal line use adhesive tapes which should be removed immediately after finishing sealing.
- Sealant does not require using primer on most surfaces but on some specific surfaces may have to use it to improve adhesion.
- Joint width should be as to be able to carry movement in range calculated for sealant in question (movement accommodation).

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2. PRODUCT PREPARATION

- Prior to application, the product should be conditioned at room temperature.

3. APPLICATION

- Cut off the top of the threaded adapter. Screw the nozzle tip on and cut off at a 45° angle, with the diameter equal to the gap width.
- Cut off the top of the foil. Screw the nozzle tip on and cut off at a 45° angle, with the diameter equal to the gap width.
- Squeeze sealant by mechanical or pneumatic gun.
- Treatment make at the time of workability given in the technical data table.
- Applied sealant should be smoothed immediately with a spatula soaked in soapy water for best result.
- Remove masking tape before skin will form.
- Joint should be allowed to fully cure.

4. WORKS AFTER COMPLETION OF APPLICATION

- Uncured product should be removed from hands, tools and dirty surfaces with paper towel.
- After curing, remove from hands with water and soap; from tools remove mechanically or using agent for removing silicones - Silicone Remover.
- DO NOT WASH HANDS WITH SOLVENTS.

5. REMARKS / RESTRICTIONS

- Do not apply on wet surfaces.
- Due to the acetic acid released during curing, acid silicone is not recommended for use on calcareous substrates such as concrete, plaster, brick.
- Sealant is not intended for sealing joints of natural stone, such as granite, sandstone, marble, etc.
- Application not on bituminous surfaces, partially vulcanized rubber, chloroprene or other construction materials that bleed oils, plasticizers or solvents.
- Application not on sensitive metal surfaces for example copper and its alloys and silver surfaces of mirror.
- Sealant is not recommended for joints that are permanently under water, because they can cause physical changes.
- Do not use in totally confined spaces where it is not exposed to atmospheric moisture, because the sealant requires atmospheric moisture for cure.
- Sealant is not intended for applications involving structural glazing.
- Silicone should not be painted.
- It is not suitable for direct contact with food and medical uses. Sealant was not duly tested and it is not suitable for medical and pharmaceutical applications.
- Do not apply on PE, PP - no adhesion.
- Not suitable for bonding mirrors.



TECHNICAL DATA

Color	
Red	+

Uncured - tested at 23 °C and 50% relative humidity	Value
Density (ISO 2811 -1) [g/ml]	1,02 ± 0,02
Skin formation time [min]	5 - 30
Tack Free [min]	5 - 15
Curing rate [mm/24h]	2 - 3
Flow from vertical surfaces [+50°C] (ISO 7390) [mm]	0 - 3

Cured - tested after 4 weeks at 23 °C and 50% relative humidity	Value
Shrinkage (ISO 10563) [%]	3 ± 2
Module at 100% elongation (ISO 8339) [MPa]	0,45 ± 0,05
Movement accommodation (ISO 9047) [%]	20
Elongation at break (ISO 8339) [%]	112 ± 7
Elastic recovery (ISO 7389) [%]	97 ± 2
Shore A hardness (ISO 868)	27 ± 3
Temperature resistance [°C]	-65 - +260 (+315)

Surface	Adhesion
Aluminum	+
Cast iron	+/-
Galvanized sheet	+/-
Stainless steel	+
Ceramic tile	+
Glass	+
Raw wood (pine)	+
Hard PVC (polyvinyl chloride)	+/-
PS (polystyrene)	+/-

+ Good adhesion

± Partially adhesive detachment

All given parameters are based on laboratory tests compliant with internal manufacturer' s standards and strongly depend on product hardening conditions (c.a., ambient, surface temperature, quality of used equipment and skills of person applying the product).

NORMS

- Product meets requirements of EN-ISO 11600 : 2004, F&G, 20HM.

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TRANSPORT / STORAGE

Warranted shelf life is 24 months from the manufacturing date when stored in unopened, original package at temperature from +0 °C to +25 °C in a dry place protected from freezing.

SAFETY AND HEALTH PRECAUTIONS

For detailed information find Material Safety Data Sheet available at producer upon request. All written or oral information, recommendations and instructions are given according to our best knowledge, tests and experience, in good faith and in compliance with manufacturer's principles. Each user of this material will make sure in every possible way, including verification of the final product in proper conditions, about suitability of the supplied materials for their intended purposes. The manufacturer is not liable for any losses incurred due to inaccurate or erroneous application of the manufacturer's materials.

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