

Updated: 28.11.2023



LISTED IN THE DATABASE FOR BUILDING PRODUCTS THAT CAN BE USED IN **NORDIC SWAN** ECOLABELLED BUILDINGS.

WTF® O OFFENSIVE FLEX®

Package size	9.8 FL OZ (290 ml / 435g)
Color	white
Description	Fast and permanently elastic WTF® Hybrid Polymer Flex Technology-based 1-component adhesive sealant. Versatile power adhesive with fast final strength build-up and high initial tack.

TECHNICAL INFORMATION

Base	SMP (silane-modified polymer), adhesive-sealant that dries due to moisture
Composition	Pasty
Consistency	Non-sag
Appearance	Smooth
Staining and bleed	None
Bridging	Very good
Durability	Excellent
Flammability	Nonflammable
Density	1,49 g/ml
Elongation at break	Approx. 225 %
Hardness	52 Shore A
Tensile strength	(DIN 53504) approx. 2,9 N/mm ² = 421 psi
100 % modulus	(DIN 53504) approx. 1,8 N/mm ² =261 psi
Processing time	(+73 °F / 50 % RH) Max. 5 min
Volume change	(DIN ISO 10563) ≤ 4 %
Drying	ca. 2.5 mm or 0.08in/day (+73 °F / 50 % RH), after 48h ca. 3.5mm or 1.38in/day
Operating temperature	+40°F...+100°F
Temperature resistance	After drying -40°F...+200°F

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WORLD'S TOUGHEST FIX

WTF® 0 OFFENSIVE FLEX® POWER ADHESIVE & SEALANT

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TECHNICAL INFORMATION	
Cleaning	When uncured; with alcohol or isopropanol and after drying mechanically or with a silicone remover or similar.
Suitable	For indoor and outdoor use
Shelf-life	15 months
Storage	Store protected from frost at 50 °F to 77 °F. A tight foil pouch extends shelf life.

WARNING

May cause an allergic skin reaction. Avoid breathing dust/fume/ gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations. **DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. CONTAINS:** N-[3-(trimethoxysilyl)propyl]-ethylenediamine. **FIRST AID MEASURES:** After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Wash with plenty of water or water and soap. In cases of sickness seek medical advice (show label if possible). After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor. After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor. **Obtain SDS (safety data sheet) online.**

BENEFITS

- Hardens even at low temperatures
- High initial tack
- Free of VOC
- Reaches high final strength quickly
- Very good adhesion for all typical building materials
- Also adheres to wet surfaces - even under water
- Free of phthalates, solvents, isocyanates and silicones
- Easy to use, despite being fast it has enough adjustment time
- Permanently elastic at at -40 °F...+200°F
- Good sealing properties and mechanical and chemical resistance
- Suitable for almost all materials including natural stones *
- Odorless
- Sandable
- Can be overpainted with almost all paints (see "PAINT COMPATIBILITY")
- Short-term resistance to +392°F degrees
- Does not corrode surfaces
- Thanks to its composition, it withstands vibration and absorbs shocks
- High mechanical durability

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TECHNICAL DATASHEET

TDS



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APPLICATIONS

Flexible, fast-drying and high tack adhesive and sealant for almost any building materials, also suitable for sealing.

Widely suitable for gluing building materials such as wood, sheet metal, metal, concrete, cement and stone surfaces, as well as various board materials such as gypsum board, plywood, fibre board, various wooden boards, wet room boards, acoustic boards, furniture boards, MDF, OSB, etc.

Excellent features also in industrial assembly, with plastics, air conditioning and ventilation systems, the bodywork and container industries. Thanks to the curing speed it is possible to attach parts in a continuous production process. Allows you to combine parts in production without thermal or chemical pre-treatment. Product has also filling properties.

Suitable metal surfaces: powder coated, lacquered, anodised, galvanized, chromed or hot-dip galvanized surface. **The suitability for painted metal surfaces must be pre-tested due to the countless number of paint qualities.**

Suitable for wood, most plastics, stone, concrete. First test the product for easy cracking materials and plastics.

Also for mounting mirrors and materials with glass backing. Avoid contact with adhesives from other manufacturers and sealants.

* **Not suitable for:** PP, PE, PTFE (Teflon), bitumen.

WORK SURFACE PREPARATION

For best results, surfaces should be clean, structurally sound, and free of grease and dust. Clean surfaces with alcohol, isopropanol or acetone, plastic surfaces with detergent solution. If the adhesive connects with other building materials such as coatings, first test for compatibility. Mechanical fasteners must be used for wall cabinets.

USE

- Read all instructions, safety, health and environmental information on the label, technical data sheet and safety data sheet before use.
- Check the best before date of the package (printed on the top of the cartridge, black on black)
- Cut the cartridge head open and attach it to the threads. Cut the head of the nozzle to an angle and suitable for the joint. The easiest way to do this is with WTF® Cartridge Opener, with a cutter or knife. Dispense the product with a cartridge gun. If used as a sealant, avoid air bubbles and finalise the surface with a soap solution and finger or with a joint tool within the given processing time. The separately sold V-shaped adhesive nozzle is developed especially for gluing.
- Depending on the bonding surface, the expansion of the material and the mechanical stress of the adhesive layer the recommended thickness is 1-5 mm (0.04-0.20 inch). Can be used with automatic dosing devices.

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- **When gluing:** Apply as stripes or dots using a cartridge gun. Always apply a glue dots to the edges of the materials you want to connect and on the corners in panels.
- **Drywall:** Apply a zigzag-adhesive lines to every stud and press drywall panel on place. Locate panels: edges meet at center of stud. Nail according instructions.
- **Furring strips:** Put a zigzag bead to every strip (1/4" wide bead) Nail to bottom and top in addition.
- **Subfloors:** Apply adhesive beads (1/4") Press and nail subflooring according instructions, or every six inches.
- **Cleaning:** As uncured with alcohol or isopropanol. As dry only mechanically or you may try to use a silicone remover or similiar to make it a little easier.
- Gluing / bonding the parts must be done within the processing time (max. 5 min).

PAINT COMPATIBILITY

Can be overpainted with the most common (waterborne) paints. Due to differences in varnishes and paints on the market, compatibility should always be tested. Use of paints based on alkyd resins can slow down the drying of the sealant - for the best results, paint after curing. Completely dry adhesive can be exposed to higher temperatures for a short time e.g. in powder coatings.

RESISTANCE TO CHEMICALS

- **Good**
against water, aliphatic solvents, oils, grease, diluted inorganic acids and bases.
- **Reasonable**
against esters, ketones and aromatics.
- **Not resistant to**
concentrated acids and chlorinated hydrocarbons.

IDEAL

- For strong bonding and sealing that require speed and high initial tack
- For versatile assembly use

SUITABLE

- For bonding mirrors
- For natural stone and for sanitary use (XS3)

LIMITATIONS

- Better adhesive than sealant
- Due to fast initial tack and strength build-up, the joint must be finished quickly
- Not suitable for swimming pools, aquariums or glazing

CERTIFICATIONS & NOTES

0% Phthalates Solvents

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Meets or exceeds the requirements for ASTM D3498 "Standard Specifications for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems"

Meets or exceeds ASTM D3498 "Standard specification for Adhesives for Field-Gluing OSB to Lumber Framing for Floor Systems"

Meets or exceeds the requirements for ASTM C557 "Standard Specifications for Adhesives for Fastening Gypsum Wallboard to Wood Framing"

DECLARATION OF PERFORMANCE (SEALING)

EN 15651-1: F-INT-EXT-CC 12,5E

EN 15651-3: S XS3

EN 15651-4: PW-INT-EXT-CC 12,5E



For more information, see the safety data sheet

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