



NanoFlex PU

Single component, polyurethane joint sealant

Description

NanoFlex PU is a single part gun grade moisture curing low modulus polyurethane sealant which cures at room temperature 25°C to an environmentally safe, tough flexible sealant. NanoFlex PU is intended for use where a tough, flexible seal is required.

Uses & Benefits

- The material has excellent resistance to bio-degradation due to bacterial attack in sewage tank and reservoir.
- Use in expansion and contraction joints on bridge decks, floor joints and construction joints, marine, vehicle and automotive parts.
- Used on all types of commercial and residential buildings joints.
- Boat, yacht building, window and door frames, ducting system, especially for clean room application.
- Extreme bonding properties with a movement capacity $\pm 25\%$.

Standards Compliance

Complies with ASTM C920

Properties

Color:	white, grey, black
Specific gravity:	1.3 \pm 0.1
Consistency:	non-slump ASTM C639-5
Skin forming time,	50% RH : 90 - 120 mins
Tensile strength:	250 psi, 4Mpa ASTM D 412
Ultimate elongation:	600%
Elasticity modulus:	48 psi
Hardness shore A:	25 to 50 ASTM C 661

Temperature

Resistance:	20 to 90°C Effect of
accelerated weathering:	No cracks ASTM 793

Chemical resistance:

NanoFlex PU is resistant to fresh water, seawater, aqueous chlorine free cleaning solutions and sewage effluent as well as diluted acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids, caustic solutions or paint thinners. The above information is offered for general guidance only. Advice on specific applications will be given upon request.

Packaging

600ml per sausage, 20 sausage per carton.

Storage

Store in dry and cool place below 35°C. Protect from direct sunlight.

Shelf life

12 months if stored properly in unopened packaging.

Instruction for use

Surface preparation: All joints should be thoroughly cleaned and any foreign matter blown out. All old caulk or sealant should be removed. Care should be taken to remove any surface alkaline deposit from cement or concrete. Clean all glass or aluminum surfaces with a mineral spirit or mild solvent prior to apply the sealant.

Application: Pierce cartridge membrane. Cut off the tip of the nozzle. For satisfactory results the adhesive must be applied with a piston-type cartridge gun (hand operated or compressed-air). To ensure a uniform thickness of the adhesive bead, we recommend that the adhesive be applied in form of a triangular bead.

Coverage:

1 Liter of NanoFlex PU covers length of joints in meters								
Depth of Joint (mm)	Width of Joint (mm)							
	6	10	15	20	25	30	40	50
6	27.5	16.5						
10		10	6.5	5				
15			4.4	3.33	2.6	2.2		
20				2.5	2	1.6	1.25	
25					1.6	1.3	1	0.8

Cleaning & Disposal

Clean tools and hands with soapy water. Do not dispose off into water or soil but according to local regulations.

Precautions & Limitations

Do not use on dusty or damp surfaces.

Health & safety

NanoFlex PU is not classified as dangerous. During application wear suitable protective clothing,