



NanoFlex PS

Two part, polysulphide joint sealant

Description	NanoFlex PS is a two component polysulphide sealant which, when mixed together, cures to form a flexible rubber seal. It gives excellent adhesion to glass, metals, concrete, masonry, wood, plastics, and many other building substrates. It is capable of withstanding repeated extension and compression without loss of adhesion. NanoFlex PS gives outstanding resistance to deterioration by weathering, oils, fuel, water, ultra violet, ozone etc, remains unaffected by most alkalis, and dilute acids.																
Uses	<ul style="list-style-type: none"> • Used as a joint sealant for withstanding repeated extension and compression without loss of adhesion. • Used as an excellent sealant to glass, metals, concrete, wood, plastics, etc. • Used as a sealer in movement joints in building and civil engineering structures, including superstructures, reservoirs, floors, basements, and subways. 																
Advantages	<ul style="list-style-type: none"> • It is used for sealing joints in building and structures that are subject to movement. • Excellent chemical resistance. • Excellent UV resistance. • High movement accommodation. • Resists Jet fuels and Aviation fuels. • Available in gun and pouring grades. • Non-biodegradable. 																
Standards compliance	Complies with the requirements of the following standards: BS 5212:1990, BS 4254:1983 WRAS approved product BS 6920:1996, ASTM C 920.																
Properties	<table> <tr> <td>Form:</td> <td>Two part gun/pourable grade</td> </tr> <tr> <td>Specific gravity:</td> <td>1.4 + 0.1</td> </tr> <tr> <td>Staining:</td> <td>Nil</td> </tr> <tr> <td>Potability:</td> <td>Potable</td> </tr> <tr> <td>UV Resistance:</td> <td>Good</td> </tr> <tr> <td>Shore A Hardness:</td> <td>25</td> </tr> <tr> <td>Chemical Resistance:</td> <td>Excellent</td> </tr> <tr> <td>Movement Accommodation:</td> <td>30% in Butt joints 50% in Lap joints</td> </tr> </table>	Form:	Two part gun/pourable grade	Specific gravity:	1.4 + 0.1	Staining:	Nil	Potability:	Potable	UV Resistance:	Good	Shore A Hardness:	25	Chemical Resistance:	Excellent	Movement Accommodation:	30% in Butt joints 50% in Lap joints
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Technical Support	Nano Vision provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.																
Packaging	3 liter & 2.5 liter units.																
Storage	Store in dry and cool place below 35°C. Protect from direct sunlight.																
Shelf life	12 months if stored in original unopened packaging.																
Instruction for use	<p>Porous: Masonry & concrete surfaces should be clean and dry. Any loose particles should be removed with a wire brush followed by blowing out with compressed air. If the surfaces are heavily contaminated with mould release or curing agents, it may be necessary to mechanically remove them.</p> <p>Non-porous: Metal surfaces should be free from scale, corrosion and any temporary protective coatings or grease. It may be necessary to wire brush the joints. Clean with suitable solvent. On wood, it is important that the sealant be applied to the base surface. Previously applied paint or primer must adhere permanently or be removed. To avoid doubt it is preferable to remove all paints.</p> <p>Priming: Apply a single coat of NanoPrimer S by brush in accordance with the manufacturer's instructions. Allow the primer to dry for a minimum of 1 hour. If sealant is not applied within further 2 hours, re-priming may be necessary.</p>																



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Coverage:

1 Liter of NanoFlex PS 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

Joint Fillers: Where applicable, joint filler should be used to partially fill the joint in order to provide the correct depth of sealant. It is also necessary to provide a bond breaker between the filler and the sealant. A suitable material is closed cell cross-linked foam polyethylene strip.

Masking Tape: Masking tape may be used to improve the neatness of the finished seal by protecting the face edges of the joint. This should be removed immediately after the NanoFlex PS has been applied.

Mixing: Combine the base and curing agent and use a slow speed electric mixer fitted with a suitable paddle to stir until a homogenous mix is obtained. Ensure that the mixing paddle is taken round the sides of the tin so that every particle of material is thoroughly mixed. A palette knife should be used to scrape round the inside of the tin to return any unmixed sealant to the mass of material.

Application: Application can be by pouring, gun or trowel according to the grade used. When using a bulk-loading gun, place over the centre hole of the filler plate: apply steady downward pressure whilst drawing the rod of the bulkloading gun, this will result in the barrel being filled. Extrude the sealant firmly into the joint by maintaining an even pressure on the trigger of the gun. Ensure complete filling of the joint to avoid slumping. Clean the gun nozzle occasionally to avoid contamination.

Tooling & Finishing: To obtain a smooth finish, tool the sealant with a spatula wet with diluted detergent. This breaks air bubbles and exposes any air pockets present whilst compressing the sealant and promoting adhesion to the joint sides.

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 PS is not classified as dangerous. During application wear suitable protective clothing, gloves and eye protection.