



TAMMSflex PG & GG

Polysulphide Joint Sealant

DESCRIPTION

TAMMSflex PG (Pouring grade) & GG (gun grade) is two parts chemically curing sealant that cures at ambient temperature to a medium modulus flexible, water-resistant rubber. TAMMSflex PG & GG provides a durable, flexible seal in joints in masonry, metal, concrete, glass, ceramic, and wood. It is ideally suited for sealing vertical, horizontal and sloping joints.

PRIMARY APPLICATIONS

- Expansion and Contraction Joints
- Sealing and caulking concrete joints subject to Structural movement
- Airport and Runways and trafficking places
- Pump station and Parking areas
- Water and sewage treatment facilities
- Sealing of grooves on up stand for trucking bitumen sheet membranes.
- Industrial warehouses.
- Basement walls
- Precast concrete elements

FEATURES / BENEFITS

- Very easy and Economic to use.
- Excellent adhesion to most common substrates
- Highly resilient with excellent recovery characteristics.
- High durability and weathering resistance
- Highly resistance to mild chemicals, Hydrocarbon Fuels and sea water
- Prevents uncontrolled cracking by allowing expansion and contractions during temperature changes

TECHNICAL INFORMATION

Property	Results
Appearance of component A: Off White Paste	
Appearance of component B: Dark Brown Paste	
Density g/cc	
Solid Content	100%
Elongation (%)	>300%
Application life	<120 min
Tack free at 25°C	<24 hours
Slump, mm	<1 mm
Initial Cure at standard condition	<24 hours
Final Cure at standard conditions Days	7 days
UV Resistance	Good
Shore A Hardness	20 +/- 5
Application temperature °C	5 – 35 deg C
Movement Accommodation Factor	+/-25%

Chemical Resistance:

TAMMSflex PG & GG is resistant to Occasional spillage to Dilute acids and Alkalis.

STANDARDS

- ASTM C920 type M Grade P class 25 use T2 BS 4254, BS 5212: Part 1
- General compliances TT-S-00227E
- DTP specification for Highway works series 1000 clause 1017.

SHELF LIFE

Store under cover out of direct sun light protect from extreme temperatures. Shelf life is at least 12months when stored between 5 deg to 35 deg C.

PACKAGING / YIELD

TAMMSflex GG Gun Grade: 2.5 liters/Pack.

TAMMSflex PG Pouring Grade: 4 liters/Pack.

Note: Customized Packing is available on special request

DIRECTIONS FOR USE

Joint Preparation

The Joint surface must be clean, dry and free from oil, loose particles, cement laitance, release agents and other contaminants. A through wire brushing, grinding, sand/grit blasting or solvent cleaning may be required to expose clean and sound surface.

Priming

Primer should be applied to clean, dry surface to the installation of backer rod or bond breaker tape. TAMMSflex Primer is recommended for porous substrates. Apply primer using a soft paint brush. For porous material, work the primer to ensure complete surface penetration, do not spread primer too thinly, do not apply excess primer, primer should be allowed to become tack free prior to sealant application.

Backer Rod

Closed cell polyethylene backer rod to allow free movement of sealant with joint movement and to ensure the correct and uniform depth of sealant along whole length of the joint, Baker rod to be used. Backer rod makes it easier to completely fill the joint with sealant, controls the sealant dept, and reduces sealant wastage and support sealant during tooling. Backer rod diameter shall be at least 20% larger but not greater than 33% of Joint width, wherever joint depth is in sufficient to use backer rod a bond breaker, polyethylene tape or film to which sealant will not stick to be used to prevent adhesion to the third surface

Mixing & Application

Gun Grade

TAMMSflex GG (Gun grade) is available in a ready to mix container with all the components in a single tin. Mix the contents thoroughly with a slow speed drill (300-400rpm) fitted to a flat bladed paddle for minimum 3-4 minutes until a uniform colour and consistency is obtained. The sides and base of the container should be periodically scrapped down with a pallet knife to ensure all activator is completely blended with base component. TAMMSflex PG & GG Gun grade is supplied in non-sag consistency, which will gun easily with conventional barrel gun or can be applied by trowel if required. Fill -joints from bottom up or out use some force so sealant can wet the surface completely.

Pouring Grade

TAMMSflex PG & GG (Pouring Grade) is supplied pre weighed two-part kit which required on site mixing. Pour the Hardener Part B in base container Part A, and mix- - thoroughly with a slow speed drill and flat mixing paddle, until both the components are uniformly color and consistency is obtained. Mix one full kit a time. Do not part mix. Any masking tape applied should be removed before the sealant cures.

Joint Sizes & Coverage

Joint size may vary from a minimum 5mm to maximum 50mm wide joints with cyclic movement should have a width: depth ratio 2:1 and designed so total movement does not exceed 25% MAF.

Sealant width should not exceed joint width, except joints subject to total immersion where joint profile should be 1:1. Minimum sealant depth recommended.

- 5mm for metals, glass and other impervious surfaces.
- 10mm for all porous surfaces.
- 20mm for joint exposed to hydrostatic pressure.
- 5mm below flush for joints exposed to traffic.

Consumption – Coverage rate

Length of Joints in meters filled with 1liter of material.

Depth of joint mm	Width of Joint mm				
	10	15	20	25	30
10	10	6.7	5	4	3.3
15		4.45	3.33	2.67	2.23
20			2.5	2	1.67
25				1.67	1.33

Limitations

TAMMSflex PG & GG is not recommended for:

- Joints greater than 50mm
- Overhead joints
- Joints having MAF >25%.
- Damp and contaminated surface
- Asphalt pavements and painted joints

Cleaning

Clean tools and equipment immediately after application with xylene or acetone. Clean up spills and drips while still wet with the same solvents. Hardened material can only be removed mechanically.

Health & Safety

As with all construction chemical products caution should be exercised. Protective clothing such as rubber gloves and safety goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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