JCC PRODUCT DATA SHEET

JCC-FLEX 1000 PS

2-Component, gun grade, Poly-Sulphide Sealant

Product Description

JCC-FLEX 1000 PS is a two-component joint sealant based on a liquid poly-sulphide polymer, which when mixed and applied, cures to form a tough, rubber-like seal. The cured sealant exhibits excellent adhesion to most surfaces including primed concrete, glass, aluminium and stainless steel.

JCC-FLEX 1000 PS is available in gun grade. The gun grade is ideal for general application, and is available in a range of colours.

JCC-FLEX 1000 PS is particularly recommended for use in sewage stations and water reservoirs where water salts attack, aggressive chemical attack is more and in high rinse buildings and other applications where access for subsequent maintenance will be difficult and the risk of early movement failure must be minimized. It is also suitable for sealing joints in brickwork, retaining walls, reservoirs, basements and subways. The sealant is resistance to tyre force and abrasion

Uses

JCC-FLEX 1000 PS is used for sealing joints in:

- Joints subjected to chemical agent as in sewage plants.
- Building and civil engineering structures
- Super structures and Reservoirs
- Floors, basements and subways.
- Water reservoirs.

Advantages

- Forms a tough, elastic, rubber-like seal.
- Accommodates continuous and pronounced cyclic movement
- Excellent adhesion to most common substrates.
- High resistance to ageing reduces physical damage due to climatic extremes.
- High resistance to tyre force and abrasion.

Standards Compliance

- British standard BS 4254: 1983
- British standard BS 5212:1990 (gun grade grey).
- ASTM C 920-87, Type M, Class 25

Technical Properties

Form	Two-Part, Paste compound	
Colours	**Gun grade:** Grey, Stone, Off-white, and Black	
Movement Accommodation Factor	25% butt joints 50% lap joints	
Pot-Life	@25 °C @35 °C	2 hours 1 hour
Setting Time	@15 °C @35 °C	36 hours 12 hours

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Full-Cure	@35 °C	4 Days
Tack free time	@25 °C	16 hours
Application Temperature		5 to 50 °C
Hardness (Shore A)	Gun grade	25-30
Water Immersion	JCC-FLEX 1000 PS must be fully cured before permanent immersion in water	
Solid Content		100%
Density		1.50 to 1.60 kg/Liter
Biological resistance	JCC-FLEX 1000 PS has been evaluated in microbiologically active situations and has been shown to have resistance to aerobic conditions.	

Chemical Resistance

JCC-FLEX 1000 PS has been tested for chemical resistance to a comprehensive range of industrial & domestic chemicals. After constant immersion for 90-days @ 35 °C in accordance with ASTM D-2240 (Shore D hardness), the results are:

Acids			**Alkalis**		
Hydrochloric	25 %	Excellent	Sodium hydroxide	25 %	Excellent
Sulfuric	25 %	Excellent	Sodium Carbonate	25 %	excellent
Nitric	25 %	Good	Ammonia	20 %	Excellent
Acetic	10 %	Excellent	Potassium Hydroxide	25 %	Excellent
Lactic	10 %	Excellent	Sodium Hypochlorite	15 %	Excellent
Citric	10 %	Excellent			
Solvents & Oils					
Ethanol		Excellent	Soya Bean Oil		Excellent
Ethyl Glycol		Excellent	Vegetable Oil		Excellent
White spirit		Excellent	Detergent		Excellent
Petrol & Diesel Oil		Excellent	Fat		Excellent
Coconut oil		Excellent	Milk		Excellent
Soya Bean Oil		Excellent	Linseed Oil		Excellent
Silicates		Excellent	Water		Excellent

Design Criteria

JCC-FLEX 1000 PS may be applied to joints between 5 mm and 50 mm wide. Joints which are expected to experience cyclic movements should be designed to an optimum width depth ratio of 2:1, subject to the overriding recommended minimum sealant depths set out below:

- 5 mm for metals, glass and other non-porous surfaces.
- 20 mm for trafficked joints and those subject to hydrostatic pressures

Guidelines for Applications

Joint Preparation

All substrates to which JCC-FLEX 1000 PS is bonded must be clean .dry and sound, clean free from dust, grease & oil, dirt or any bond -inhibiting materials. Laying backer foam inside the joint to govern the depth of the sealant materials .it is recommended to prime the sides of the joint with PRIMER. The edges of the joints can be covered with masking tape to avoid soiling.

Priming

JAZEPRIME- EP10 can be used prior to the application (See its data Sheet).

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Mixing

JCC-FLEX 1000 PS two components should be mixed carefully for at least 3 minutes using a recommended mixing paddle fitted to a slow speed electric drill (300-500 rpm) until an homogenous mix is obtained .if the base compound is not well mixed the hardener uniform curing cannot be expected .

Application

After thorough mixing of the two component place the single hole follower plate over the JCC-FLEX 1000 PS and fill directly into barrel gun sealant firmly into the joint to ensure complete wetting of the bonding surfaces .compress and smooth the sealant with joint shaping tool wetted with water and immediately strip off masking tape.

Finishing

JCC-FLEX 1000 PS should be tooled to a smooth finish. Use dilute detergent solution as a surface lubricant.

Cleaning

All equipment & tools shall be cleaned with solvent after work immediately.

Packaging

JCC FLEX 1000 PS is supplied in well sealed 5.825-Kg packs

Storage & Shelf-life

JCC FLEX 1000 PS shall be stored in normal conditions away from any extreme temperatures, or any source of moisture. 12-monthes if stored properly in well-closed containers.

Health & Safety

- JCC-FLEX 1000 PS is non-toxic, non-corrosive, and non-dangerous.
- For Ecology: Do not dispose directly to water or soil. Mix Component A with Component B and wait till hardening, then burry in landfill in accordance with the local regulations.
- Splashes on skin will be washed with water and soap.