



# Mycoflex 4000GV

## Two Component, Gun Grade, Polysulphide Based Joint sealant

### Product Properties

- **Mycoflex 4000GV** is a Two component polysulphide Based Gun Grade Sealant for the vertical and over head application
- Highly resistance to Chemicals
- Provides MAF approx. 25%
- Good weather and UV resistance
- Confirms to ASTM C920-87 Type M, Grade NS, Class 25
- Confirms to BS 4254 : 1983
- Confirms to ISO 11600-2003 Type F, Class 25 , LM Standard
- Confirms to IRMRA certification
- Confirms to IS 12118 (PT 1& 2) -1987

### Areas of Application

- Suitable for Vertical and overhead Expansion joint sealing in Concrete or Masonry structures.
- Suitable for all vertical and overhead expansion joints, contraction joints in Basements, subways, external walls, water retaining structures, Bridges etc.
- Suitable for Filling joints in Floor screed or Terrace screed or crack filing in vertical or over head application.

### Application Notes

#### Joint Preparation

The substrate for the application of **Mycoflex 4000GV** should be free from any unsound substances, oil, dust, grease, vegetations etc. All the old sealants if any should be removed completely. Cleaning should be done by any mechanical mean to achieve a sound surface. If the surface is porous then it should be brushed with mechanical brush so that all the impurity will be removed for better adhesion.

The joint width should be kept uniform through out the section. Before application of the **Mycoflex 4000GV** the joint the residual moisture should be less than 4%. The Permitted total deformation and the prospective mechanical loading must be considered by constructive laying of the joint width.

#### Joint Filler

For Joint Filling Backer Rod can be recommended as per joint width and depth. While filling the Backer rod into the joint chare should be taken that the backer rod should be packed tightly in the joint so that it can provide suitable non-movement able cushion for the sealant throughout the joint. During choosing of the bond backer care should be taken so that it will not bond with the sealant. If there is any chance that the backer rod can be bonded with **Mycoflex 4000GV** then in that condition Bond breaker can be recommended before application of sealant. For better result Closed-Cell Polyethylene based Mycoflex Jointfiller PE can be recommended. The joint depth must be limited to approx. 50% of the width, however it must be at least 10 mm as per DIN 18540.

#### Priming

Before the application of **Mycoflex 4000GV** priming the surface with **Mycoprime 4000PS** because it provides better adhesion. The primer must penetrate the joint-sides completely and over the entire area.

During application primer care should be taken that it should not be exposed more than 4 hrs depending on ambient and surface temperature. The interval between priming and application of **Mycoflex 4000GV** should be at least 1hour and no more than 10 hrs at 20° C

#### Mixing

The base and the hardener component must be mixed together thoroughly and homogeneously. Only mechanical mixing with an electric hand drill (200-400 rpm) and an attached special mixture is permitted. To prevent mixing mistakes, we recommended to mix 3 minutes. After re-potting mix another minute.

#### Application

**Mycoflex 4000GV** can be applied by using air guns with rebound-nozzles at 3 bar to 4 bar or from pressure pots. Or by manually. Then after application of **Mycoflex 4000GV** the sealant can be leveled or smoothen by help of sealant leveling tool. During application of sealant it should be bubble free. Its pot life is 90min at 23° C and 50% RH. High temperature and high humidity can shorten the pot life of the material. Material which is cured or partially cured must not be used for joint filling.

#### Safety Advice

When applying the primer **Mycoprime 4000PS**, as well as **Mycoflex 4000GV**, please take note of safety information and advice given on the Packaging labels

For any specific critical application and further technical Specification, please take help of Technical team of MC-Bauchemie India for the further advice.



#### Technical Data for Mycoflex 4000GV

Characteristic	Unit	Value*	Comments
Specific Gravity		1,60	At 30° C Temperature
Mixing Ratio	p.b.w	92: 08	Resin: Hardener
Initial Curing Time	minutes	120 – 300	At 23° C and 50% RH
Full Curing time	Days	8	At 35° C and 50% RH
Pot Life	minutes	90 - 180	At 23° C and 50% RH
Shore A Hardness		20	ASTM D2240
Shear Strength	Mpa	0,5	ASTM D1002
Tensile strength	Mpa	0,3	ASTM D882
Elongation	%	450	ASTM D882
Application Temperature	° C	+5° to +45°	
Service Temperature	° C	-40° to +80°	
MAF	%	25	ASTM C 719 & ISO 9047
UV resistance		Good	
Elastic recover	%	>90	ISO 34

#### Product Characteristics for Mycoflex 4000GV

Type of Product	Thixotropic, Gun Grade
Color	Grey
Shelf Life	12 Months from date of Manufacture if stored in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Storage Temp should be +5° C to +25° C
Delivery	4kg and 6 kg
Disposal	Empty packs completely and dispose off carefully to protect our Environment

#### Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

**Note:** - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.

**Edition:** - MC/IND/190612, Some Technical Changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.