MAPEFLEX PSU PS ME
MAPEFLEX PSU SL ME
MAPEFLEX PSU NS ME

Multi-component polysulphide sealant

WHERE TO USE

Mapeflex PSU SL ME, **PSU NS ME,** and **PSU PS ME** are a range of high-quality general-purpose civil engineering joint sealants based on polysulphide polymer.
Mapeflex PSU SL ME, **PSU NS ME,** and **PSU PS ME** are particularly suitable for movement joints of buildings, industrial floors, car parks, reservoirs, subways, infrastructure projects, etc.

ADVANTAGES

- Designed to form a tough rubber-like seal
- Capable of accommodating continuous and pronounced cyclic movement (+/- 25%)
- Excellent adhesion
- Lead-free curing compounds to ensure that the product is safe for handling and application

TECHNICAL CHARACTERISTICS

MAPEFLEX PSU SL ME – Self-levelling grade

Mapeflex PSU SL ME is a pouring grade, self-levelling multi-component joint sealant, based on liquid polysulphide polymer, and is recommended for sealing expansion joints and construction joints (stress relieving joints) in floors or other horizontal surfaces. Horizontal level tolerance should be within 3%.

MAPEFLEX PSU NS ME – Non-sag grade

Mapeflex PSU NS ME is a two-component vertical-grade, joint sealant, based on liquid polysulphide polymer, which when mixed and applied, cures to form a tough, rubber-like seal. It is particularly recommended for application on civil structures and high-rise buildings where access may be difficult for future maintenance. It is suitable for sealing joints in structural concrete, brickwork, retaining walls, reservoirs, basements and subways. Can be applied on vertical as well as horizontal surfaces.

MAPEFLEX PSU PS ME – Primer for porous substrates

RECOMMENDATIONS

Over-painting of sealants is not recommended because of the inability of paint films to accept movement. However, wherever required, trials should be carried out to determine compatibility.
Mapeflex PSU SL ME and **PSU NS ME** should not be used in direct contact with materials containing pitch or bitumen.
Only **Mapeflex PSU NS ME** should be used in vertical or horizontal joints in reservoirs or other water-retaining structures.

Note: Refer to Mapei local office when joints are expected to be exposed to high levels of chlorine or swimming pool application.

APPLICATION PROCEDURE

Joint preparation

The joint surfaces must be thoroughly dry, clean, and dust free. All dust and laitance must be removed by wire brushing, grinding, or grit blasting. All metal surfaces must be free of all rust, scale, and protective lacquers. Use a suitable solvent to remove any traces of oil or grease.

Ensure that the expansion joint filler is tightly packed and devoid of any gaps or spaces at the base of the sealing slot, prior to positioning the bond breaker tape. The use of bond breaker tape is not required in expansion joints containing polyethylene foam joint fillers. For construction or contraction joints polyethylene bond breaker tape must be used.

To ensure a neat finish, use masking tape along the face edges of the joint before priming. Ensure the tapes are removed immediately upon completion of tooling works.

MAPEFLEX PSU PS ME – Primer for porous surfaces

Mapeflex PSU PS ME is a single component chemically active liquid primer, recommended for all porous substrates namely concrete, stone, brickwork, timber etc. Apply a uniform coat of **Mapeflex PSU PS ME** to the bonding faces of the joint ensuring a uniform application. Avoid ponding at the base of the joint.

Whenever excess porosity is encountered an additional coat is recommended. Allow the primer to become touch dry, before proceeding with the application of **Mapeflex PSU SL ME** or **PSU NS ME**. Any primed areas not sealed within 3 hours of primer application, should be re-primed one hour prior to the sealant application.

Note on primer application

- Avoid excess priming to eliminate the chances of primer ponding at the base of the joint
- Apply **Mapeflex PSU SL ME**, **PSU NS ME,** and **PSU PS ME** only when the primed surface is tack free, which is after the solvent has evaporated but prior to the primer film having reacted completely

PACKAGING

Mapeflex PSU PS ME (Primer): 1 litre.
Mapeflex PSU NS ME (Gun graded): Pre-tinted grey or black colour in 4 litres composite pack containing component A and B.
Mapeflex PSU SL ME (Pouring grade): Pre-tinted grey or black colour in 5 litres composite pack containing component A and B.

CONSUMPTION

Joints Size in mm	Liters per LM
10X5	0.050
20X10	0.200
40X20	0.800
50X25	1.250

Mapeflex PSU SL ME and **PSU NS ME** are elastomeric sealants and may be applied to joints between 5 and 50 mm wide. Joints that 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
- 10 mm for all porous surfaces
- 20 mm for trafficked joints and those subject to hydrostatic pressures

STORAGE

Shelf life of 12 months in original unopened containers. Store in dry conditions in the enclosed warehouse at temperatures not exceeding 25 °C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instruction on the safe use of our products can be found on the latest version of the Safety Data Sheet available on our website www.mapei.ae.

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION		
	Mapeflex PSU SL ME	**Mapeflex PSU NS ME**
Colour:	grey	grey
Solids Content:	100%	100%
VOC Content:	0%	0%
Density Kg./ltr.:	1.55 - 1.66	1.55 - 1.66

APPLICATION DATA (at +23°C and 50% R.H.)		
Physical/Chemical Change:	chemical cure	chemical cure
Hardness Shore 'A' at +25°C	17-22	23-28
Movement Accommodation Factor:	+/- 25%	+/- 25%
Application temperature:	+5°C - 50°C	+5°C - 50°C
Pot life at +25°C:	120 minutes	90 minutes
Setting time:	18 hours at +25°C 12 hours at +35°C	18 hours at +25°C 12 hours at +35°C
Cure time:	1 week at +25°C 4 days at +35°C	1 week at +25°C 4 days at +35°C

FINAL PERFORMANCE		
Chemical Resistance (Occasional spillages)		
- Dilute acids:	resistant	resistant
- Dilute alkalis:	resistant	resistant
- Resistant:	resistant	resistant
- Aviation fuel:	resistant	resistant
- Kerosene:	resistant	resistant
- Lub.Oils:	resistant	resistant
- Skydrol:	resistant	resistant
- White spirit:	resistant	resistant
- Chlorinated Solvents:	not resistant	not resistant
- Aromatic Solvent:	not resistant	not resistant
- Dilute oxidizing acids:	not resistant	not resistant
- Water Immersion:	**Mapeflex PSU SL ME** must be fully cured before permanent immersion in water	**Mapeflex PSU NS ME** must be fully cured before permanent immersion in water

IMPORTANT NOTES

While we try to ensure that any advice, recommendations, or information in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is, therefore, important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given, nor can responsibility be accepted other than the product we supply will meet our written specifications. The installer should ensure that our latest product data and safety information sheets have been consulted before use.

Please refer to the current version of the Technical Data Sheet, available on our website www.mapei.ae.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.ae.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.
All relevant references for the product are available upon request and from www.mapei.com.

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