

# MEGASEAL PS

## Two Part Flexible Polysulfide Sealant

### Description:

MEGASEAL PS is a high quality general purpose Civil engineering joint sealant based on liquid polysulphide polymer, which when mixed and applied, cures to form a tough, rubber like seal, MEGASEAL PS is particularly suitable for movement joints and expansion joints internal and external.

MEGASEAL PS - PG flowable pouring grade, self-leveling two component joint sealant, based on liquid polysulphide polymer, recommended for sealing expansion joints and construction joints (stress relieving joints) in floors or other horizontal surfaces.

MEGASEAL PS - GG thixotropic two component vertical grade joint sealant based on liquid polysulphide polymer, 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, brick work, retaining walls, reservoirs, basements and subways.

### Applications:

- Storage areas and hangers joints.
- Precast panels joints.
- Joints in water retaining structure, such as reservoirs, dams, canals, culvert.
- Expansion joints for carpark, bridge, airport runway, pavement.
- Sealing of construction and moving joints in high rise building, including structural expansion joint.

### Advantages:

- Highly elastic and capable to accommodate continuous cycle movement.
- Chemically resistant to wide range of moderate chemicals.
- Stable colours.
- Durable and low maintenance cost.
- Excellent adhesion to substrate.
- Ease of application, available in two version pouring and gun grade.

- Interior and exterior application.
- Can be applied as a joint between different construction material.

### Instructions for Use:

#### Surface Preparation:

All joints should be sound, clean, dry and free from loose material, laitance, dirt, oil and grease. Ensure that concrete Joint is fully cured for at least 28 days.

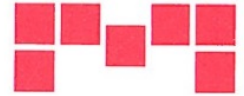
Prepare the joint by hand mechanical tools to remove any contaminant join or deformation. If the joint requires re-profiling, conduct re-profiling with one of MATEX concrete repair products, consult with MATEX technical department

For applications on porous concrete surfaces and stone, brickwork, timber, etc., apply MEGAPRIME a single component chemically active liquid primer with a brush to ensure proper adhesion for sealant. For application on non-porous surfaces such as steel, or glass use MEGAPRIME PS. Always apply the primer in a thin coat and allow to become tack free prior to application.

Apply a masking tape to the sides of the joint before priming, to preserve the joint edges from contamination. Ensure that the expansion joint filler and or packing rod is tightly packed and avoid any gaps or spaces at the base of the sealing slot, prior to positioning of the bond breaker tape. The use of a bond breaker tape is not required in expansion joints containing polyethylene foam joint filler. For construction or contraction joints polyethylene bond breaker tape must be used.

#### Mixing:

Mix the contents of component A (Base) with a low speed mixer for two minutes to homogenize the material in the container. Slowly add the contents of part B (Hardener) to Part A container by spatula, while mixing in progress. Mix thoroughly the material with low speed mixer (200-300 RPM) for an



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interval of 4 minutes confirming a homogenous color consistent, lump free mixture is reached.

Note that the mixing process is exothermic (heat generating). If excess heat is noticed, avoid excessive mixing, or control the speed of mixing machine.

In Pouring Grade allow the material to rest for 3 minutes before application to release entrapped air. Knock by wooden spatula on sides of the container to assist in release of air bubbles.

### Application:

Apply the sealant either by gun or pouring depending on product grade to the required quantity to fill the joint. Ensure continuous filling for the joint and do not allow time gaps in the application. Allow the sealant to settle in the case of pouring grade and remove the excess from the sides of the joint. For the gun grade application, apply normal hand pressure with a clean sponge wetted with water to uniform the surface of the sealant. Ensure the tapes are removed immediately on completion of tooling works.

### Standards:

MEGASEAL PS conforms to:

- ASTM C920, Type M, Grade P, Class 25
- BS 4254, B5212
- WRAS – BS 6920

### Coverage:

MEGASEAL PS coverage depends on joint dimensions. It is calculated in volume as:

Consumption of sealant (ml) per linear meter = joint width (mm) x joint depth (mm) x 1 LM  
1 liter = 1000 ml

TECHNICAL PROPERTIES		
FORM	POURING GRADE	GUN GRADE
Consistency	Self Levelling	Non sag thixotropic
Color	Grey	Grey, white
Solid Contents	100%	100%
Density	1.64 kg/Lt.	1.56 kg/Lt.
Hardness Shore 'A' @25°C	20	25
Elongation	500%	300%
UV Resistance at 300 hours	No deterioration	No deterioration
Service Temperature	-20% to 80°C	-20% to 80°C
Movement Accommodation Factor	± 25%	± 25%
Application Temperature	+5 to +50°C	+5 to +50°C
Pot Life @ 25°C	130 minutes	90 minutes
Setting Time	16 hours @ 25°C	18 hours @ 25°C
Curing Time	1 week @ 25°C	1 week @ 25°C
Chemical Resistance	Dilute acid, Dilute alkali, oil, aviation fuel, kerosene, solvent, sea water	Dilute acid, Dilute alkali, oil, aviation fuel, kerosene, solvent, sea water

### Packaging:

MEGASEAL PS is available in 4 liter two parts metallic containers kit.

MEGASEAL PG is available in 4 liter two parts metallic containers kit.

### Storage Conditions:

MEGASEAL PS to be stored in original packing in dry conditions away from direct sunlight and high humidity levels. Temperature of storage area not to exceed 35°C.

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## Shelf Life:

MEGASEAL PS can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

## Cleaning:

Clean tools with solvent before material hardens.

## Remarks:

- Do not apply on damp or contaminated surfaces.
- Joint movement should not exceed  $\pm 25\%$  of joint width when installed in 2:1 W:D ration.
- Paint compatibility with sealant should be tested prior to painting.
- Total movement of sealant should not exceed 25% MAF.
- Joint depth should not exceed the width.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- Avoid direct contact with flames and fire.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical help.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

