

ECMASEAL PS

High Performance, Polysulphide Sealant

Description

ECMASEAL PS is two-part, Polysulphide sealant. It is elastic, weather-resistant, non-sagging, tear resistant and water-tight with outstanding adhesion to practically all surfaces when used with the correct primer. **ECMASEAL PS** is supplied in 2 packs, for sealing horizontal and vertical joints where pronounced cyclical movement is expected and where the service conditions would be harsh for most common sealants.

Advantages

- Excellent UV resistance
- Provides uniform, water tight seal.
- Has good adhesion to most substrates.
- Highly resilient with excellent recovery characteristics and thermal flexibility.
- Flexible, Tear resistant, Chemical & fuel resistant.
- Prevents cracking by allowing expansion / contraction during atmospheric changes.

Areas of Application

It is ideal for use in expansion joints in reinforced concrete structures such as buildings, roads, bridges, reservoirs, water treatment works, sea walls and roads, etc. It can also be used in floor joints subject to heavy usage where a high resistance to damage is required.

Technical Specification

Technical Parameters	Pour Grade	Gun Grade
Color	Grey	Grey
Specific Gravity	1.60-1.70	1.65-1.72
Solid content	> 97 %	> 97 %
Tack-free Time @ 25°C	24 hours	24 hours
Pot life @ 25°C	2 hours	2 hours
@ 35°C	45 minutes	45 minutes
Setting Time @ 25°C	24 hours	24 hours
@ 35°C	6-8 hours	6-8 hours
Full Cure Time @ 25°C	14 days	14 days
@ 35°C	7 days	7 days
Shore A Hardness ASTM D 2240	10±2	21±2
Application Temperature Range	5°C to 40°C	5°C to 40°C
Elongation at Break % ASTM D 412	450±50	450±50
Tensile Strength Kg /cm ² ASTM D 412	2	3
Movement Accommodation Factor	±25%	±25%

Note: Use ECMASEAL Pour Grade for Horizontal surfaces and use ECMASEAL Gun Grade for Vertical applications



Surface/Joint Preparation

ECMASEAL PS should be applied on sound and clean surfaces free from dust, loosely adhered particles, paints, oils, grease, etc. In case of damaged or not levelled or non-uniform concrete surface, it should be repaired using high strength polymer mortar ECMAREP 502 or epoxy repair mortar ECMAREP 503.

Priming

Concrete & Masonry	Surfaces must be clean and dry. Wire brush thoroughly and remove dust and all contaminants.
Metals	Remove any corrosion or scale by grit or shot blasting, wire brush, grinder or chemical remover. De-grease the surfaces with clean cloths soaked in oil-free cleansing solvent.
Wood (bare)	Wood surfaces must be clean and dry, cut back or abrade where necessary to sound timber.
Glass and glazed materials	Thoroughly clean the surfaces with clean cloths soaked in oil-free cleansing solvent.
Coating surfaces	Coating should be removed and the surfaces treated as above.

Use **ECMAPRIME PS** or **ECMAPRIME EI** on sides of the joint for better adhesion, over the well prepared, clean and dry surfaces and allow it to touch dry.

Mixing

Mix and use complete unit at one time. **ECMASEAL PS** is supplied in a single pack, the base and hardener being contained in the same tin. Remove the lid and carefully scrape all the hardener and add to the base tin. Using a mixing paddle fitted to a low speed (400 / 500 rpm) electric drill, mix the two components together for at-least 2 minutes. The inside of the tin should then be scraped with a flat-bladed tool, to ensure that unmixed components to not remain around the sides. Mixing should then be continued for a further 2 minutes until a uniform grey color is obtained.

Application:

Mixed ECMASEAL PS to be applied after 15-20 minutes (to ensure there is no entrapment air) on primed surfaces using a sealant gun but may be applied by trowel if required. Sealant guns are fitted with nozzles which can be cut to suit the joint width. Deep joints should be filled in two or more runs, to prevent air entrapment. Ensure depth of the joint does not exceed its width. Use backup rod to adjust depth suitably. Once the sealant has been applied, a small timber spatula, soaked in soapy water, should be used to compact the sealant into the joints and to achieve a smooth polished finish. Any masking tape which has been applied should be removed before the sealant cures i.e. within 30-45 minutes after sealant application. It is recommended to used Polysulphide sealants only up to 50 mm Gaps. In case of trafficable/ accessible areas, protect the treated joint with suitable protection plate to avoid any physical damage.

Consumption

Not allowing for wastage, consumption can be calculated as follows: Square Section Joints: Joint width (mm) x joint depth (mm) x joint length (meters) / 1000 = total number of litres required.

Packing

Available in 4 kg tin container packed in 16 kg carton (4 Kg x 4). Both components in pre-measured quantities and ratio are packed in a single container

Storage

Store in a cool and dry place, under shed, away from direct sun light and heat.

Shelf Life

12 Months from the date of manufacture when stored in original unopened sealed condition at 5 - 30°C.

Safety & Precautions

- Wear suitable protective clothing, gloves and eye protection.
- Avoid contact with skin / eyes, and avoid swallowing.
- Solvent should not be used for cleaning the hands. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.
- Ensure adequate ventilation when working with these products and do not smoke during use.
- Clean tools and tackles using solvent like Xylene etc.
- Ensure adequate ventilation and do not use near naked flame.

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