

PENTENS PS-608

Polysulfide Joint Sealant

Product Data Sheet

Description

PENTENS PS-608 polysulfide joint sealant is a 100% solid content, cured to form a soft elastomeric weatherproof seal and is specifically designed for sealing of external or internal expansion and construction joints in buildings and engineering structures. It is suitable for sealing the bonding of concrete, FRP, stone, teak and etc.

PENTENS PS-608 is available in gun and pouring grades. The gun grade is ideal for general application.

Uses

PENTENS PS-608 seals movement joints in the building and engineered structures, including superstructures, floors, basements and subways.

- Expansion joints
- Construction joints
- Precast systems
- Brick and blockwork
- Window and door frame sealing
- External cladding
- Curtain walls
- Stone joints
- FRP
- Glass & teak
- Reservoirs

Advantages

- Easy to apply.
- Good bonding on various substrates.
- Soft elastic with 25% moving capacity.
- Excellent resistance against weather and high durability.
- Waterproofing.
- Will not crack.
- Non-sagging.
- Non-staining.
- Chemical resistance.
- High elongation.
- Excellent adhesion to most substrates.

Technical & Physical Data

Color	Part A : Ivory paste Part B : Black paste
Appearance	Part A : Polysulfide resin Part B : Peroxide
Stability	Stable, non-flowing on vertical surfaces
Density	Approx. 1.62kg/L
Application Temperature	5°C - 50°C
Initial Cure	After approx. 3 hours at +25°C / 50% RH
Full Cure	After approx. 5-7 days at +25°C / 50% RH
Condition After Hardening	Soft-elastic
Mixed of Weight	A:B = 10:1
Shore A Hardness (ASTM D2240-15)	78
Elongation (ASTM D412-16)	>260%
Tensile Strength (N/mm ²) (ASTM D412-16)	>0.66
Tear Strength (N/mm) (ASTM D624)	>4
Maximum Deformation Capacity	25%
Pot Lift (25°C)	>60 minutes
Temperature Resistance	-30°C to 80°C
Chemical Resistance	Resistant to water, sea water, diluted acids and alkalis. Restricted resistance against mineral oil, fat and petrol.
Packaging	4.4L /set
Storage (25°C)	Cool, dry and tightly sealed. Can be stored for at least 12 months

General Information

PENTENS PS-608 should only be applied at air and substrate temperatures of between 5°C and 50°C. Chemical or mechanical attacks should be avoided until the sealant is fully cured.

Instruction for Use

Application

- The borders of the joints must be clean, dry and free from loose particles, oil, fat and any other contaminants. The surface must be sufficiently solid. Loose parts (residual mortar, cement grout, etc.) have to be removed mechanically (use steel brush, grinding wheel or compressed air).
- Metallic surfaces have to be made completely free from oxidation fat or other contamination by using grinders or cleanser.
- For construction joints, a bond breaker tape or back-up strip should be used. Where hydrostatic pressure exists, only bond breaking tapes must be used instead of foamed back-up strips.
- For the following cases, priming with PENTENS PU-01 is necessary: porous substrates (e.g. concrete, plaster and brickwork), stressed joints (e.g. expansion joints) or substrates that may contain other contaminants (e.g. wood).
- The sealant is applied after the primer coat has sufficiently dried off.
- When applying the material, avoid cavities and bubbles.
- After application, smooth the surface with a wet knife or spatula.
- It is advisable to put an adhesive tape along the border of the joint to guarantee clean work. Remove the adhesive tape immediately after smoothening.

Mixing

PENTENS PS-608 must be mixed homogeneously prior to application, using an electrical or pneumatic power stirrer at approximately 300-500 rpm. Mixing time is a minimum of 5 minutes depending on circumstances as it may take a longer time until a homogeneous mix is achieved in certain circumstances.

Pouring grade is supplied in 2 separate containers; the base in the larger pail and the curing agent in a sachet. The sachet content should be transferred to the tin and mixed homogeneously prior to application, using an electrical or pneumatic power stirrer at approximately

300-500 rpm. Mixing time is minimum of 5 minutes depending on circumstances as it may take a longer time until a homogeneous mix is achieved in certain circumstances. The pouring grade may be poured directly into horizontal joints or loaded into a gun for application to horizontal joints less than 15mm wide.

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. In case of contact with eyes, rinse with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin cleanser followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.