

PENTENS FLEX-609

Single Component Polyurethane Joint Sealant

Product Data Sheet

Description

PENTENS FLEX-609 is a single component polyurethane sealant, cured to form a soft elastomeric weatherproof seal and is specifically designed for waterproofing and sealing of external and internal expansion and construction joints in buildings and engineering structures.

Uses

- Expansion joints
- Construction joints
- Pre-cast panel joints
- Brick and blockwork
- Window and door frames
- External cladding
- Curtain walls

Advantages

- Single component, easy to apply.
- Good bonding with various substrates.
- Soft, elastic with 25% moving capacity.
- Excellent resistance against weather.
- High durability.
- Waterproof.
- Will not crack.
- Non-sagging.
- Non-staining.

Technical & Physical Data

Colors	Black, white , grey (other color made to order)
Consistency	Paste-like
Stability	Stable, non-flowing on vertical surfaces
Density	Approx. 1.4g/ml
Application Temperature	From 5°C to 35°C
Initial Cure	After approx. 3 hours at 23°C / 50%RH
Full Cure	After approx. 3 - 7 days at 23°C/ 50%RH
Condition After Hardening	Soft, elastic
E-modulus (100% expansion)	Approx.0.20N/mm ²
Shore A Hardness (ASTM D2240)	>20
Tensile Stress at 100% Elongation (N/mm ²) (ASTM D412)	0.46
Elongation at Break (%) (ASTM D412)	>1.000
Maximum Deformation Capacity	25%
Temperature Resistance	From -30°C to 80°C
Chemical Resistance	Resistant to water, seawater, diluted acids and alkalis. Restricted resistance against mineral oils, fat and petrol.
Storage	1 year when store in cool, dry and tightly sealed package.
Packaging	600ml vacuum-packed sausages (20 sausages per box)

Important Notes

1. PENTENS FLEX-609 is not suitable for sealing glasses, trafficable joints on floors and in cases of permanent wet conditions (sanitary tanks, etc.). Do not use the system on malleable substrates such as bitumen and wax putty.
2. Chemical or mechanical attacks should be avoided until the sealant is fully cured.

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, compressed air).

Metallic surfaces have to be made completely free from oxidation fat or other contamination by using grinders or cleanser.

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) and substrates that may contain other contaminants (e.g. wood).

The sealant is applied after the primer coat is dry. All joints must be backfilled with an oil and bitumen-free filler which the sealant cannot adhere to.

If no back-filling material can be applied, adhesion of PENTENS FLEX-609 to the bottom of the joint must be prevented, e.g. by using a polyethylene strip (bond breaker).

PENTENS FLEX-609 is packaged in a 600ml vacuum-packed sausages and can be applied manually or using air operating guns.

Avoid cavities and bubbles when applying the material.

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.

Safety

PENTENS products are normally harmless when used correctly. Do not allow uncured material to come into contact with food and its utensils. Avoid skin contact. It is recommended to wear protective clothing, gloves, goggles and barrier cream when using it. Wash well after use. If contact with eyes or mouth occurs, rinse immediately with plenty of water and seek medical advice.