

Single component polyurethane joint sealant

Description

PENTENS FLEX-609, single component polyurethane, cures to form a soft elastomeric weatherproof seal and it 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
- Precast
- Brick and blockwork
- Window and door frame sealing
- External cladding
- Curtain wall

Advantages

- Single component, easy to apply
- Good bonding on various substrates
- Soft elastic with 25% moving capacity
- Excellent resistance to weather conditions / High durability
- Waterproofing
- Will not crack
- Non-sag
- Non staining



Technical & Physical Data

Colors	Black, white, grey (Other color made to order)
Consistency	Pastous like
Stability	Stable, non-flowing on vertical surfaces
Density	Approx. 1.4g/ml
Application temperature	From +5 ⁰ C up to +35 ⁰ C
Initial cure	After approx. 3 hours at +23 ⁰ C / 50% RH
Full cure	After approx. 3-7 days at +23 ⁰ C / 50% RH
Condition after hardening	Soft-elastic
E-modulus (100%expansion)	Approx. 0.20N/mm ²
Shore A hardness	Approx. 15-20
Maximum deformation capacity	25%
Temperature resistance	From -30 ⁰ C up to +80 ⁰ C
Chemical resistance	Resistant against water, sea water, diluted acids and alkalis. Restricted resistance against mineral oils, fat and petrol.
Packaging	600ml vacuum packed sausages (20 per box)
Storage	Cool, dry and tightly sealed. Can be stored for at least 6 months.

General information

PENTENS FLEX-609 should only be applied at air and substrate temperatures between +5⁰C and +35⁰C. PENTENS FLEX-609 is not suitable for sealing glass, for trafficable joints on floors and in case of permanent wet conditions (sanitary, tanks, etc.). Do not use the system on malleable substrates such as bitumen, wax putty. Chemical or mechanical attacks should be avoided until the sealant has 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 and / or cleaner.
- For the following cases a priming with PENTENS PU-01, E-500, E-500SE or other suitable primer is necessary: porous substrates (e.g. concrete, plaster and brickwork), stressed joints (e.g. expansion joints), substrates that may contain other contaminants (e.g. wood).
- The sealant is applied after the prime coat has sufficiently dried. All joints must be backfilled with an oil and bitumen-free filler to which the sealant cannot adhere.
- 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 delivered ready-to-use in economical 600ml vacuum packed sausages and can be applied by hand or air operating guns.
- 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.

Safety precautions

PENTENS products are normally harmless when used correctly. Do not allow uncured material to come into contact with food stuffs, utensils.

Avoid skin contact. It is recommended to wear protective clothing, gloves, goggles and barrier cream during use. Wash well after use. In the event of accidental eye or mouth contact rinse immediately with plenty of water and seek medical advice.