

EUROSEAL PU 35 (Shore A 35)

One-part polyurethane elastic adhesive /sealant

DESCRIPTION :

EUROSEAL PU 35 is a one-component, medium-modulus polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to all typical construction materials such as cement based materials, brick, ceramic, glass, wood, galvanized and painted sheet iron and various plastics.

CLASSIFICATION STANDARDS :

Meets or exceeds the requirements of the following specifications:

- CE marked for EN 15651 for façade applications.
- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.
- The French VOC requirements for class A+
- Conforms to BS 6920 for the metallic water soluble impurities and is suitable for use in drinking water systems.
- ASTM C.920-87 & 98 (USA) as **Class 25**
- AS1157-1972 Resistance to fungal growth
- Meets the requirements of ISO 11600 F 25 LM

KEY FEATURE

- Weatherability & Waterproof : becomes elastic and flex with air humidity
- Unaffected by weather conditions and expansion
- Fast Tack free time and quick cure rate. Increase productivity.
- **Excellent elasticity and very good adhesion strength. Possesses permanent elasticity**
- **Cures bubble-free : No bubble formation, even in wet and humid conditions**
- **Non staining** . Does not cause oil stains in panels and porous material
- Over-paintable with water based paints
- No shrinkage , No sagging – Thixotropic , very easy to apply
- No surface tackiness after full cure. Do not pick up dirt.
- Enhanced storage stability
- **Provides Enhanced Mechanical Resistance**

RECOMMENDED USES :

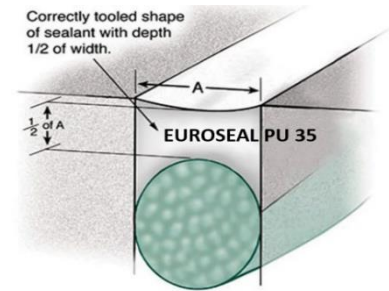
- Window and Door Perimeter
- Expansion joints between many different construction materials
- Movement and connection joints in floors
- Indoor and outdoor applications for pedestrian and traffic areas
- Joints between prefabricated construction materials
- Sealing and bonding of ventilation ducts, gutters and spouts etc.
- For expansion joints between pre-cast concrete panels

APPLICATION INSTRUCTIONS

- Ensure that the surfaces to be sealed are clean, dry and free from grease. A preliminary compatibility test is recommended.
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- Apply sealant evenly, If necessary, use masking tape and remove the tape while the sealant is still soft,
- Joint width/depth ratio should be 2:1 (Table 1),
- If necessary, use back up material to adjust joint depth,
- Sealants should adhere to only two surfaces of the joint: Use backer rods and bond breakers to facilitate.



COVERAGE CONSUMPTION / JOINT DESIGN

All joints must be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are not usually feasible after construction. The basis for calculation of the necessary joint width are the technical values of the joint sealant and the adjacent building materials as well as the exposure of the building, its method of construction and its dimensions.

Approximate consumption

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	8 mm	10 mm	12 mm	15 mm	15 mm
Joint length /600 ml	6 meters	5 meters	3 meters	2 meters	1.3 meters	1.1 meters

Backing: Use only closed cell, polyethylene foam backing rods.

TECHNICAL PROPERTIES

Base	1 component polyurethane
Curing Mechanism	Moisture Curing
Consistency / Color	Thixotropic paste / White, Grey, Black
Movement Capability	25% (ISO 11660)
Joint Dimensions	Min. width = 10 mm / max. width = 35 mm
Density (DIN 52451-PY)	1,20 ± 0,03 g / ml
Tack Free time	30-70 minutes (23°C / 50% R.H.)
Curing Performance	Min. 2,5 mm/day (23°C and 50% R.H)
Full cure	7 days
Hardness Shore A	35-40 (After 28 days : ASTM C661)
E-Modulus (23 °C)	0.35-0.4 N/mm ² aprox.at 100% elongation after 28 days (ISO8339)
E-Modulus (-20 °C)	≤ 0,60 N/mm ² aprox.at 100% elongation after 28 days (ISO8339)
Elastic Recovery	85% approx (ISO 7389)
Sagging	0 mm (ISO 7390)
Elongation at break	≥% 600 (DUMBLE TEST: ASTM D412)
Tensile Strength	1.5-2.0 N/mm ² (DUMBLE TEST: ASTM D412)
Temperature Resistance	-40 °C to + 90 °C
Application Temperature	5 °C to + 40 °C
Paintability	Yes
UV durability (QUV test 1000 hr.)	Pass

Chemical Resistance

Resistant to fresh water, seawater, limewater, sewage effluent, diluted acids and caustic solutions;
Temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils;
Not resistant to organic acids, alcohol, concentrated mineral acids and caustic solutions or solvents.

PACKAGING : EUROSEAL PU 35 is supplied in 310 ml cartridge , 600ml sausages

STORAGE AND SHELF LIFE

15 months if stored in its original package, away from direct sunlight and moisture, between +10 °C and +25 °C

CLEAN-UP

The use of protective goggles, barrier creams and ointments, gloves, and protective clothing is recommended. Clean up uncured material and equipment immediately after use using **Handi Clean Towels**. Do not use towels on skin. Cured material can be removed by mechanical means only.

RESTRICTIONS

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Avoid application below 5 °C and above 40 °C.
- It is not suitable for food contact applications.

HEALTH AND SAFETY INFORMATION

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Safety Data Sheet.



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