

REC FLEX PU425

ONE COMPONENT, NON SAG, ELASTOMERIC POLYURETHANE SEALANT WITH HIGH TEAR AND WEATHER RESISTANCE

DESCRIPTION

REC FLEX PU425 is a single component non sag polyurethane sealant that cures by reacting with air humidity to form a tough and highly elastic low modulus sealant. **REC FLEX PU425** has a very wide service temperature range. Suitable for vertical and horizontal joints.

PRIMARY APPLICATIONS

- General sealing of construction and expansion joints.
- Basement walls.
- Precast concrete elements.
- For concrete, wood, marble, stone, aluminum, steel, ceramic, gypsum boards, etc.

FEATURES/BENEFITS

- Very easy and economical to use.
- One component.
- Excellent ageing resistance.
- Paintable, consult DCP's Technical Department for more details.
- Remains elastic at temperatures down to -30°C.
- Good resistance to microorganisms and a variety of chemicals.
- Good adhesion to most surfaces without the need for priming.
- Excellent water resistance.

STANDARDS

REC FLEX PU425 complies with:

- ISO 11600, Type F, Class 25 LM.
- ASTM C920, Type S, Grade NS, Class 25, Use NT, T, A, M and I.

TECHNICAL INFORMATION

Color	Various
Density	1.4 ± 0.03 g/cm³
Shore A hardness: ASTM C661	30 ± 5 @ 7 days
Service temperature:	-30 up to 100°C
Application temperature:	5 up to 50°C
Adhesion in peel: ASTM C794	≥ 110 N
Tack free time: ASTM C679	1:00 to 3:30 hr @ 23°C & 50% RH
Curing rate:	≈ 2.5 - 3.5 mm/day
Elongation at break: ASTM D412	≥ 800% @ 7 days
Tensile strength: ASTM D412	≥ 1.8 MPa @ 7 days
Modulus @ 60%: ISO 8339	≤ 0.25 MPa @ 23°C (LM) ≤ 0.40 MPa @ -20°C (LM)
Effects of accelerated weathering: ASTM C793	No cracking
Effect of heat aging: ASTM C1246	Pass @ 70°C
Movement accommodation: ASTM C719	± 25%
VOC:	≤ 75 g/ltr

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

- All substrates should be clean, dry, free from dust, oil, grease and any contamination that could effect the adhesion.
- If the substrates need to be cleaned, use methyl ethyl ketone (MEK), acetone or grease remover. Always be sure that the substrates are dry before the application.

PRIMING

- REC FLEX PU425** generally has strong adhesion to common clean, dry and sound substrates without primers. However, **REC PRIME PS100** primer can be used on porous substrates in order to achieve optimum bond strength.
- For joints of porous substrates which will be continuously submerged in water, it is recommended to use **REC PRIME PS100**.
- Apply **REC FLEX PU425** within 10 - 30 minutes from the application of **REC PRIME PS100** at 23°C.

APPLICATION

- The recommended application temperature range is 5°C to 50°C.
- For cold weather application, store the product in a heated area at 20°C for 24 hours prior to use. Install polyethylene joint backing rod to control the sealant depth.
- Tooling and finishing should be carried out immediately after the application of the sealant. For optimum performance, the ratio of width to depth of the sealant should be 2:1. Minimum sealant depth should however be 5 mm.

LIMITATIONS

- Not recommended for unsound substrates.
- Although **REC FLEX PU425** is generally paint able, it is advisable to test the specific paint for compatibility.
- Long exposure to UV, will reduce surface gloss, but will not affect sealant performance.

CLEANING

- Clean tools and equipment with REC Cleaner, MEK or acetone before the sealant has completely cured. After curing, abrasion is necessary.

PACKAGING

REC FLEX PU425 is available in 600 ml sausages.

STORAGE

REC FLEX PU425 has a shelf life of 6 months for from date of manufacture if stored at temperatures between 5°C and 25°C in the original, hermetically sealed unopened packaging in a controlled dry, cool and shaded area protected from frost, moisture, high temperatures and direct sunlight. If these conditions are exceeded, Reckon Technical Department should be contacted for advice.

HEALTH & SAFETY

If **REC FLEX PU425** comes into contact the eyes, flush with copious volumes of cold water and seek medical attention. Product is non-hazardous once cured.

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