

REC FLEX 3C

ONE PART FIRE RATED INTUMESCENT POLYURETHANE JOINT SEALANT

DESCRIPTION

REC FLEX 3C is a one-part, fire-rated intumescent polyurethane joint sealant designed to provide up to 4 hours of fire protection while accommodating joint movement. It offers excellent adhesion, flexibility, and weather resistance for both internal and external construction joints.

PRIMARY APPLICATIONS

REC FLEX 3C is a fire rated intumescent, low modulus, one component, Class-A polyurethane sealant. When cured it will form a tough, flexible fire rated seal capable of cyclic expansion and compression movement of 50% ($\pm 25\%$) of the original installed joint width. **REC FLEX 3C** is resistant to normal weathering conditions such as rain, sunlight, snow, sleet, ozone, atmospheric contamination and pollution. **REC FLEX 3C** can be used on:

- In situ concrete floors and walls.
- Precast and tilt up panels.
- Brickwork and block work.
- Rendered masonry.
- Plasterboard.
- Fiber cement sheet.

FEATURES/BENEFITS

- Fire Rated up to 4 hours.
- Acoustic rated.
- One component, no mixing required.
- Low modulus 50 % ($\pm 25\%$).
- Excellent durability.
- Retains its original properties even after years of weather and UV exposure.
- Resistant to weathering conditions.
- Paintable.
- Non staining.
- Does not support fungal growth.

TECHNICAL INFORMATION

Colors	Limestone, Off White, Grey and White
Viscosity	Non-sag, smooth thixotropic paste
Cure method	Moisture curing
Chemical resistance	Dilute acids, alkali and some solvents. Intermittent contact with petroleum and diesel
Application temperature	5 to 35°C
External joint sealant	ASTM C.920 Type S, Grade NS, Class 25, use NT, G, A, M, & O
Resistance to fungal growth (AS1157.1-1972)	Passed
Service temperature	-40 to 70°C
Tack free time	6-12 hours
Cure rate	2mm /24 hours on porous substrates
Full Cure	7 days on porous substrates
Specific gravity	1.45
Shore A hardness	30

Tensile strength	> 1.3 N/mm ²
Elongation at break	> 900%
Total joint movement	± 25%
Maximum joint width	Up to 50 mm

DIRECTIONS FOR USE

SURFACE PREPARATION

- Clean and dry all surfaces by removing foreign matter and contaminants such as laitance, oil, dust, grease, frost, water, dirt, old sealants, curing agents and any protective coating.
- Dust and loose particles should be vacuum cleaned.

PRIMING

- Priming of all surfaces is recommended to achieve stated performance properties.
- DO NOT USE METHYLATED SPIRITS OR TURPS.

POROUS SUBSTRATES:

- Absorbent or porous substrates will allow a bead of water to easily soak into and wet out the surface of the substrate
- For maximum performance on porous surfaces and in all periodically immersed and submerged applications, use REC PRIMER
- Porous substrates not subject to immersion or ponded water e.g. vertical expansion joints in concrete or masonry structures so not require priming if clean, dry and uncontaminated

NON-POROUS SUBSTRATES:

- Non-absorbent substrates will cause a bead of water to be retained on the surface of the substrate as a raised droplet. The droplet does not easily soak into the surface of the substrate.
- REC PRIMER is recommended for non-porous or burnished / overworked concrete substrate as per Technical Data Sheet.
- REC PU Primer is recommended for non-porous plastic and metal substrates.
- Prime all plastics and metallic non-porous substrates with REC PU Primer using the two-cloth method described below. E.g. UPVC outlets and pipe-work: brass, copper fittings, stainless steel trays and flashings.

APPLICATION

REC FLEX 3C should be dispensed from the sausage by means of a sausage barrel gun via following ways:

- Clip the end of the sausage and place in a barrel gun
- Screw the end cap and nozzle onto the barrel gun
- Use the trigger to extrude the sealant. To stop; depress the catch plate.
- Apply **REC FLEX 3C** in a continuous operation using enough pressure to properly fill the joint. Tool off the surface of the sealant with an appropriately sized spatula or trowel. Apply sufficient

pressure to leave a smooth, consistent surface and ensure maximum contact with the interface of the joint.

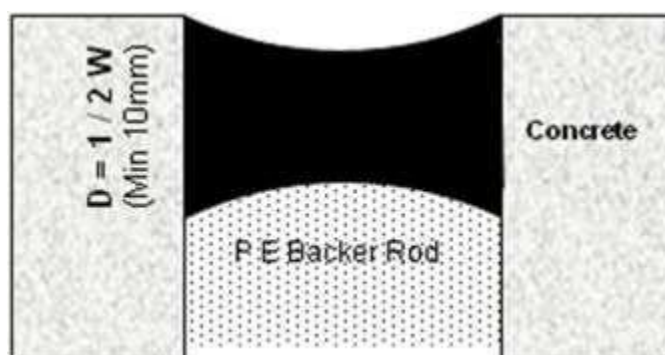
JOINT SEALING HINTS:

Prime prior to the installation of the backing rod.

Always use backing rod for correct sealant geometry & contact with the substrate.

Ensure maximum adhesion to bond face and depth to width ratio of 1:1 for 10 mm joints and 1:2 for joints over 10 mm up to 50 mm and 3:4 for some joints in specialist applications.

Tool sealant to achieve concave shape.



COVERAGE

Calculation formula $W \times D \times L = \text{Liters } 1000$

No. of 600 ml sausages = Liters / 0.6

W=Joint width (mm), D=Joint depth (mm), L=Length (meters)

CLEANING

The use of protective goggles, barrier creams and ointments, gloves and protective clothing is recommended. Cured material can be removed by mechanical means only. Aromatic solvent clean-up is not recommended. Clean off uncured material and equipment immediately after use using Handy Wipe towels to remove adhesive from skin.

PAINTABILITY

REC FLEX 3C can be painted after a minimum of 7 days. Coatings containing solvents such as enamels, oil based or other coatings may cause the surface of the sealant to react creating a tacky surface. Surface coatings may discolor in direct contact with cured **REC FLEX 3C**. Surface coatings may crack and craze as a result of cyclical movement of supporting sealant joint. A field test is recommended to ensure compatibility of any coating with **REC FLEX 3C**.

LIMITATIONS

Not recommended for:

Use in chlorinated water such as swimming pools, spas etc.

- Use on any material containing bitumen
- Constant immersion in salt water
- Use in glazing applications
- Application to cement based substrates within 28 days of initial pour or set
- Use in trafficable joints greater than 10mm in width
- Application at temperatures below 5°C or above 35°C
- Exposure to water and/or alcohol before it has completely cured
- Wet tooling techniques, such as soapy water
- Application in less than 6mm in width and depth

PACKAGING

REC FLEX 3C is available in 600 ml Sausages.

STORAGE

SHELF LIFE

REC FLEX 3C has a shelf life of 12 months when stored in warehouse conditions below 30°C in the original, unopened packs.

STORAGE CONDITIONS

Store under warehouse conditions, below 30°C in the original, unopened packs.

For further information, refer to the Product Material Data Sheet.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Tell: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

