



Flexicon Elastomeric Concrete

Elastomeric Concrete for Bridge Joints

Flexicon Elastomeric Concrete has been specifically compounded for use in roadway applications as a nosing to house Bridge Seals and Products Metallic Claw Type Expansion Joint Systems. It's high strength, excellent adhesion and flexibility ensure joints that do not spall or crack.

Mixing and Curing:

Use Flexicon in units as supplied or in carefully metered ratios thereof. Decant components A & B into a suitable container and mix thoroughly using a mechanical stirrer and a spatula to scrape the side of the container. When suitably mixed, decant the binder slowly, whilst mixing, into the aggregate component and mix till homogeneous, using a motorised drum type mortar mixer. Curing takes place at ambient temperatures (20 °C). During cold winter temperatures, merely warm the aggregate uniformly to approximately 45°C before mixing in the binder. No additional heat is required to complete the cure.

Mixing Ratio:

Resin : 5 Litre
 Hardener : 5 Litre
 Aggregate : 2x25kg

Mix together until homogeneous.

Free Flowing Material

In the application process, **Flexicon Elastomeric Concrete** will flow uniformly to fill all the voids and cavities, To ensure good compaction around the claw and reinforcing, tamp continuously. Finally trowel to a smooth finish using a pre-warned trowel.

Adhesion Capability:

Flexipatch Elastomeric Concrete has excellent bonding characteristics. It will bond to steel, aluminium, concrete, asphalt as well as itself. To enhance adhesion, good surface preparation and

priming is recommended.

Elasticity & Temperature Characteristics:

Flexicon has been formulated especially to meet the harsh temperature variations encountered in South Africa. It retains flexibility even at 0 °C to accommodate stresses in the interlace with concrete caused by differential thermal expansion rates, as well as retaining a sufficient physical strength even at high temperatures to resist traffic impact forces.

Safety Precautions:

As with other chemicals, avoid direct eye and skin contact.

Storage:

Store in a cool, dry place in the original container.

Properties:

Part A Fluid - Clear Resin
 Part B Fluid - Black tar extended curing agent
 Part C Selected graded aggregate

Gel times: ±30min at 20 °C
 ±10min at 40 °C

Curing times at 25 °C:

4hrs	24MPa	10mm deflection	15%
5hrs	28MPa	9mm deflection	13%
6hrs	39MPa	6mm deflection	9%

Sieve Analysis of Aggregates:

13,2mm	97,5%
9,5mm	72,5%
4,75mm	59,7%
1,8mm	40,1%
0,6mm	10,4%
0,3mm	4,7%
0,075mm	1,4%