

GCP SENTINEL® NJ

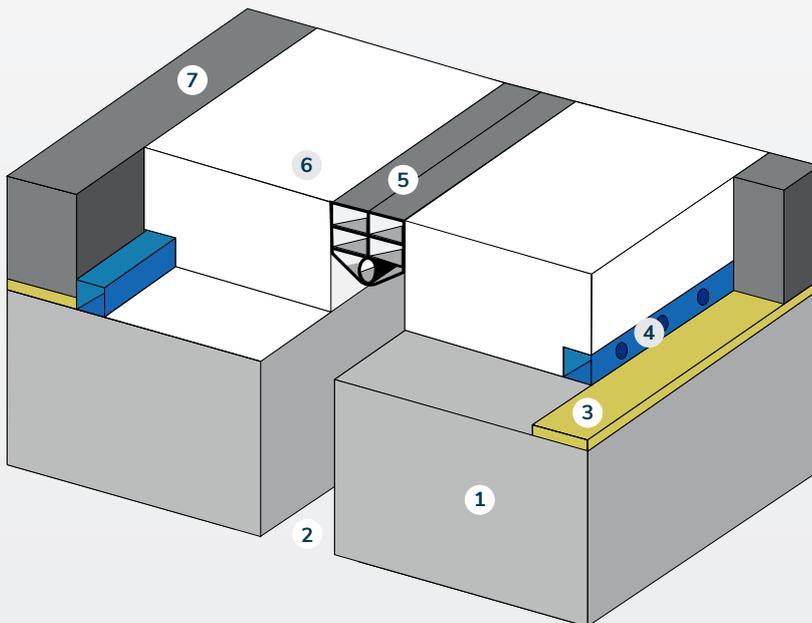
PART 4: NOSING EXPANSION JOINT

(TYPE 4 NOSING WITH PERFORMED COMPRESSION SEAL)

The SENTINEL® NJ is an ideal match for high load and high wear situations such as highway bridges, footbridges, car parks and building applications. The Type 4 joint is surface mounted, comprising a central preformed load bearing compression seal, bonded between high strength elastomeric nosings.

Note: Metaset Structural Adhesive is applied as a layer on the faces of the Sentinel® Nosing Mortar FC and into the ribs of the Sentinel® NJ seals.

The expansion joint is supplied with 4 seal sizes: type 10, 12, 20 and 40.



- 1 Bridge Deck
- 2 Expansion Gap
- 3 Eliminator® Membrane
- 4 Hydrostatic Pressure Relief
- 5 Sentinel® NJ Seal Bonded to Nosing Mortar with Metaset® Structural Adhesive
- 6 Sentinel® Nosing Mortar
- 7 Road Surface

Key Features

- Small movement expansion joint system for highway bridges, car parks, footbridges and building applications
- Complies with CD357 and ETAG032
- Rapid installation
- No mechanical fixings
- Can be installed one lane at a time
- Resists deformation from heavy traffic loading
- Installed to the 'as built' geometry of the structure
- Allows horizontal and vertical movement
- Waterproof

Movement range

	NJ10	NJ12	NJ20	NJ40
Horizontal Movement	10mm	12mm	20mm	40mm
Minimum Gap depth	40mm	45mm	70mm	90mm
Optimum Gap width	20mm	25mm	35mm	50mm
Seal Width Fully closed	15mm	19mm	25mm	31mm
Seal Width Fully opened	25mm	31mm	45mm	71mm

Standard Nosing Dimensions

	NJ10	NJ12	NJ20	NJ40
Minimum nosing width	100mm	100mm	100mm	100mm
Minimum nosing depth	40mm	40mm	60mm	60mm

Metaset Structural Adhesive Dark Grey

Application temperature range	Value
Standard grade	0-30°C
Tropical range	25-50°C
Cure Time	15-40 minutes

Application

Primer

Prepared substrates must be primed with PAR1 Primer in accordance with data sheet MA038.

Seals

Seals can be ordered in 12.5m and 25m lengths and should be cut to length suitable for the joint length. Butt joints in the seal must be avoided. We recommend that the ordered length is at 1m longer than that proposed to allow for variations on site.

Sentinel® Nosing Mortar FC & Safetrack HW

Sentinel® Nosing Mortar FC should be mixed and applied in accordance with the Sentinel® Nosing Mortar FC datasheet. Safetrack HW, a HAPAS Type 1 High Friction surfacing system should be applied over the Sentinel® Nosing Mortar FC to enhance skid resistance.

Coverage

Please refer to the relevant product datasheets for the coverage rates.

Health & Safety

Please refer to the safety data sheets for more info.

Packaging & Storage

PAR1 Primer – 5kg kit

Sentinel® Nosing Mortar FC – 49.4kg kit

Metaset Structural Adhesive – 5kg pack

Sentinel® NJ Seals – supplied in 12.5m & 25m lengths

Safetrack HW – Patch Pack

All components of the sentinel NJ System should be stored off the ground in cool, dry, protected conditions, out of direct sunlight and in accordance with the relevant Health and Safety regulations. Storage temperature must not exceed 25°C for the Metaset Structural Adhesive, Nosing Mortar FC and Safetrack HW PP. These components should not be stored near naked flames or foodstuffs. Stored under these conditions Metaset Structural Adhesive and Sentinel® Nosing Mortar FC have a shelf life of six months, while Safetrack HW PP has a shelf life of twelve months.