BEKAERT
better together

Fortifix® C
STEEL-BASED
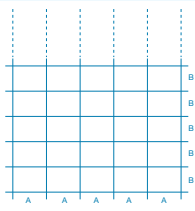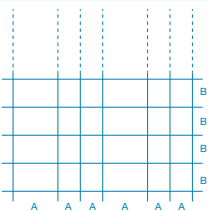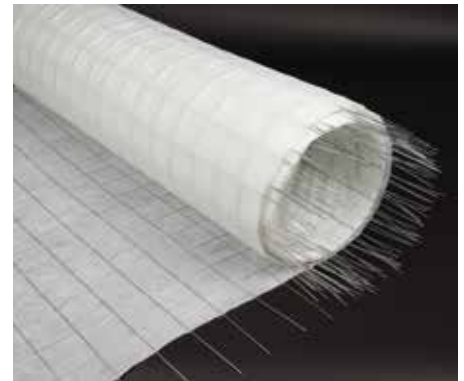# INTERLAYER

DATASHEET

Application

Road renovation by asphalt overlay.
Can be used in combination with SAMI.

Technical specifications

			Fortifix® 1-C	Fortifix® 2-C
Mesh tensile strength MD x CMD * (kN/m) **			42 x 54	31 x 32
Elongation (%) ***			1.8	1.8
Young's modulus (GPa)			190	190
Tensile stiffness (kN/m)			2900 x 3900	2300 x 2300
Durability			Zn coated-class D	Zn coated-class D
Weight (g/m²)			353	253
Carrier			PET nonwoven	PET nonwoven
Bitumen retention (g/m²) ****			500	500
Length (m)			50	100
Outer diameter (m)			0.36	0.42
Width (m)	0.90	Net weight roll (kg)	16	22
	1.40		24	35
	2.16		38	54
	2.66		47	67
Grid opening CMD x MD (mm)			A B 40 x 30	A B 50***** x 50

* CMD = cross machine direction - MD = machine direction
** Weighted average based on EN15381 and tested according to single rib test of ASTM D6637-01
*** Non-embrittled material
**** EN 15381 Annex C
***** Equivalent Mesh Width in CMD: for type 1 & 2 the mesh width is the same (1,5 inch / 38,1mm), but for type 2 there is 1 cord on 4 removed, at this place the mesh width becomes 3inch / 76,2 mm instead of 1,5 inch this results in an overall equivalent mesh width of 2 inch / 50,8 mm.

GENERAL DESCRIPTION
- For repair of non-structural damage to the road
- Fast, easy and simple installation
- For thin asphalt overlays (we recommend > 3 cm)
- Excellent anti-cracking properties
- Great end-of-life properties

Certificates

CE, the document
'EC Declaration of Performance'
is available online:
www.bekaert.com/doc/Fortifix

CE

0799-CPR
EN 15381
17

Storage instructions

Installation

1. Mill the surface or apply a primer to smooth rough edges. Unevenness remaining after milling must be less than 10 mm. Potholes and open cracks must be treated separately.

2. Clean and dry the surface thoroughly. Use a high pressure washer with vacuum if possible. The surface must be dry before moving on to the next step.

3. Apply a grade 70 polymer modified bitumen emulsion of >500 g/m².

4. Unroll Fortifix®, manually or automatically, onto the wet tack coat. Assure the mesh lays completely flat. Immobilize the reinforcement by brushing it into the tack coat.

5. Trim Fortifix® to keep manholes and other utility structures uncovered.

6. Cover Fortifix® with a thin layer of hot asphalt. We recommend an overlay of minimum 3 cm. If specified by the design, apply a SAMI first.

Overlaps

- Place the head of a new roll under the end of the previous roll.
- In longitudinal direction, the overlap should be >8 cm.
- In transversal direction, the size of the overlap depends on the length of the outer cords.
- If the overlap in transversal direction exceeds the length of the cords, an emulsion/tack coat spray has to be applied before unrolling a new layer of Fortifix®.
- Also use overlaps to create curves; cut the mesh in pieces of app. 5 m and arrange accordingly.

Note
- Fortifix® can be applied on both grinded and smooth surfaces.
- An extra SAMI can be used but is not required. If applied, both SAMI and Fortifix® need to be covered with 0.1 kg/m² gravel and compacted with a light tandem-compactor.

Clean and dry surface

Apply bitumen emulsion

Unroll manually

Unroll automatically

Apply asphalt layer