

The right fibre for the right use

	Dramix® Steel fibres	Synmix® macro synthetic fibres	Duomix® Micro synthetic fibres
Pastic shrinkage reinforcement			✓
Anti-spalling aid at fire			✓
Temporary linings (such as in mines) allowing large deformations	✓	✓	
Durability and sustainability (steel)	✓		
Crack controlling reinforcement	✓		
Structural reinforcements	✓		
Heavy impact	✓		
Fatigue	✓		

Fibres for all your tunnel types:



MINING



ROAD



HYDRO



METRO



RAIL



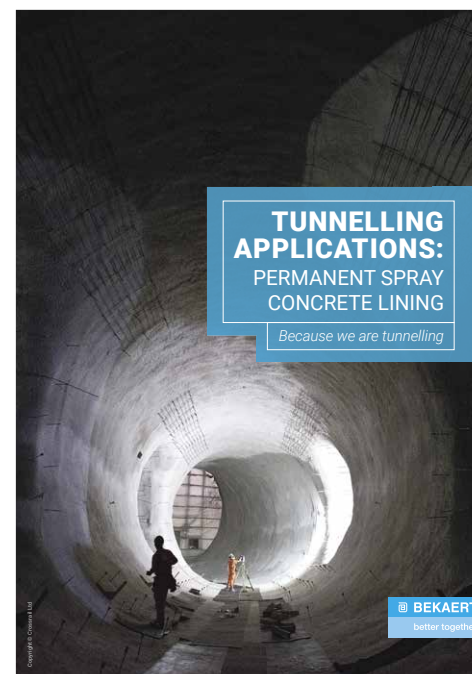
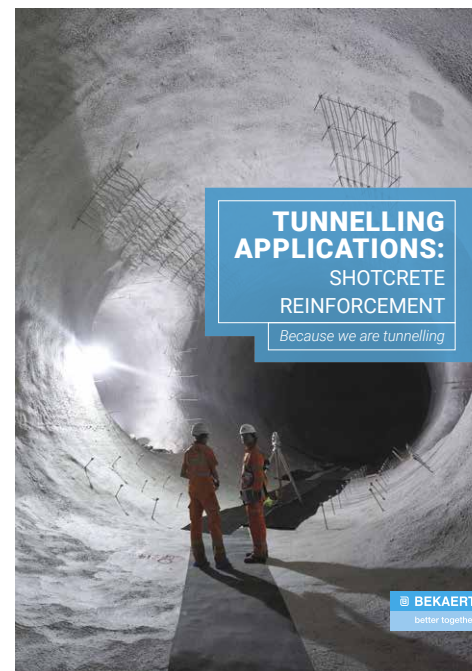
SEWAGE



UTILITY

Need more in-depth technical info?

Request our Tunnelling Applications Handbooks via infobuilding@bekaert.com or download at www.bekaert.com/fibre-reinforced-concrete-tunnelling



Bekaert
www.bekaert.com/underground

Contact us:
NV Bekaert SA
Bekaertstraat 2
8550 Zwevegem - Belgium

infobuilding@bekaert.com
T +32 56 76 61 10
F +32 56 76 79 47

v1_2020 - emygod.be

FIBRES FOR TUNNELLING AND MINING

Because we are tunnelling

BEKAERT

better together

Why choose Bekaert?

We are the market leader in the underground market of Fibre Reinforced Concrete, we offer you the most complete fibre portfolio.

Why choose DRAMIX®?

Our wide range of fibres give you the support your project needs. For more than 40 years Dramix® steel fibre technology has been offering durability and safety.

Depending the application we have the right fibre for your project, for the right price.

Dramix® is the most economical reinforcement product that enables to obtain higher reinforcement performance with lower steel fibre dosage, while at the same time guaranteeing a stable quality

- Meet your specs while saving cost, time and CO₂ consumption.
- Continuous innovation, continuous improvement.
- Apply tailor made solutions for each project and application.
- Steel fibre are glued for homogeneous distribution and easy mix. Dosing equipment are perfectly designed for glued fibres.

Advantages of working with the Fibre Reinforced Concrete Tunnelling Expert:

- On-time delivery
- On-site support and design guidance along your project
- We assist you in the mix design optimization
- High delivery capacity
- Most economical solution with the highest performance
- lower carbon footprint

Optimal reinforcement

Steel fibre reinforcement provides multidirectional reinforcement, protecting the edges of your concrete segments against spalling forces.

- Best Durability
- Liquid tight
- No creep
- High ductility and residual strength
- Validated design standards
- Cracking control & hardening post-crack behaviour

Safe

Steel fibre reinforcement improves the stability of your concrete structures, making them safer and more reliable over the entire service life span.

Easy storage and reduced carbon footprint

The compact packaging of the fibres bags take up less space than regular reinforcement cages, making it easier to store and transport.

Easy, time-saving handling

Steel fibre reinforcement is mixed directly into your concrete as an aggregate, eliminating the time and labour needed to transport and install traditional reinforcement.

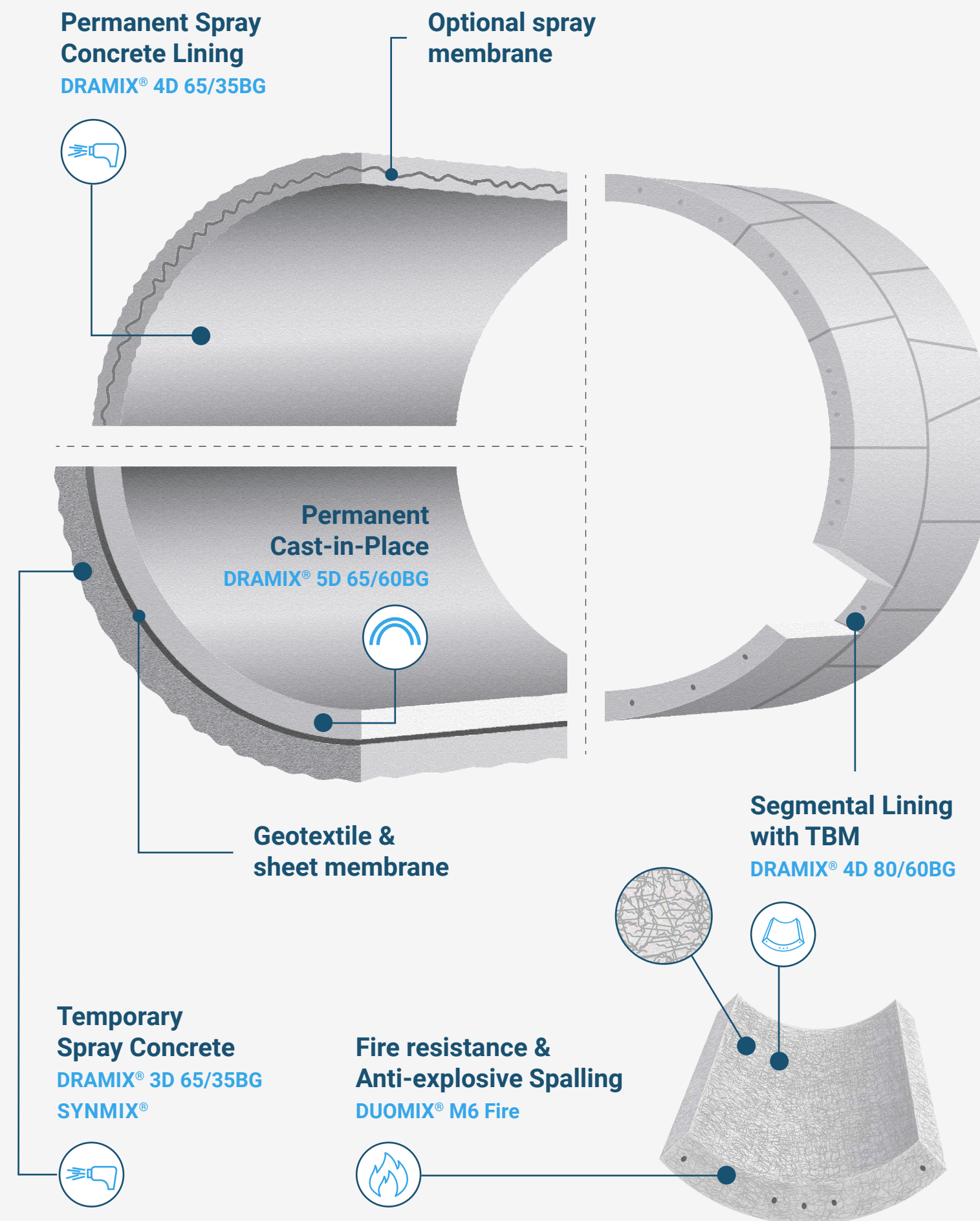
Cost-effective

Steel fibre reinforcement in precast elements eliminates the costs of making, storing and handling of reinforcement cages.

Eco-friendly

Steel fibres achieve a similar to even better performance than traditional rebar and use up to 60% less steel weight. On top of that, steel fibres have no negative impact on the environment.

OUR FIBRES IN ALL YOUR TUNNELLING APPLICATIONS



Our fibres

Not sure which type of fibres best suits your projects?
Let us know, we'll help you find out!

Steel fibres

3D Dramix		Dramix® 3D The reference fibre for spray concrete for first lining.
4D Dramix		Dramix® 4D High strength concrete + extra high tensile strength + small diameter optimized 4D hook gives exceptional post crack behavior.
5D Dramix		Dramix® 5D Combined perfect anchorage + ultrahigh tensile strength + high ductile wire and provide flexural hardening at modest dosage.

Synthetic fibres

	Synmix® For temporary support and mining.
	Duomix® M6 Fire For anti-explosive spalling.