

mira

Secure tile fixing

- the correct choice of tile adhesive



CE certified

mira tile adhesive for all types of jobs

The key to good tile work lies in the quality of the tile adhesive, as properties such as adhesion strength and flexibility are crucial for ensuring that the tiled surface achieves the necessary strength and long lifetime.

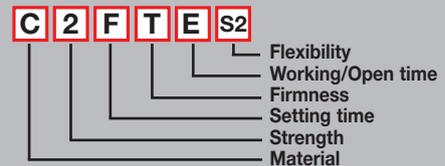
In addition, it is important to look at the adhesive's working and open time, strength, and setting time. This is why all mira tile adhesives are labelled with a CE classification detailing the product's characteristics.

For example, if you're not completely sure of the conditions, it can be a good idea to use an S2 classified tile adhesive, which has over twice the flexibility of an S1 classified adhesive.



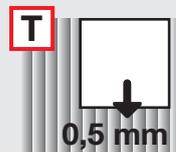
CE classification – how to read it:

In order for a tile adhesive to be CE-certified, it must at minimum fulfil the adhesive requirements which are described below. These requirements are tested in water, under heat conditions of +70°C and alternating freeze/thaw cycles.



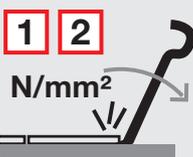
Material

The letter C classifies the adhesive as a cement-based product.



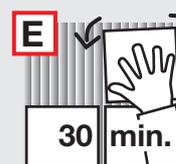
Firmness

The declaration's letter T (thixotropic) means that the tile on a horizontal surface may slide a maximum of 0.5 mm. If unclassified, the tile may slide a max. 2 mm.



Strength

In addition to the C marking, a declaration for tile adhesive MUST show an adhesion strength of 1 or 2, where 2 is the highest. Class C1 = > 0,5 N/mm²
Class C2 = > 1,0 N/mm² after full hardening.



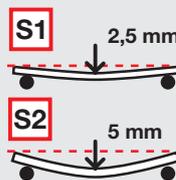
Working/open time

The declaration's letter E (extra-long open time) means that the tile can be mounted/adjusted up until 30 minutes after affixing the tile to the surface. If unclassified, the standard is 20 minutes.



Setting time

The declaration's letter F ('fast') means that the tile adhesive sets quickly and has achieved a minimum adhesive strength of 0.5 MPa after six hours' setting time.



Flexibility

Only tile adhesive that has been declared as C1 or C2 can fulfil the requirements for S1 and S2 testing. In order to be classified as S1, the tile adhesive must have a flexibility of 2.5 mm. For S2, the requirement is 5 mm.

CE classification – what you should consider

Strength C2 is often seen as better than C1. This can be very misleading, as the strength only shows its ability to stay put. E.g., a 20x20 cm ceramic tile requires a tensile strength of approx. four tonnes for C2 and two tonnes for C1 to pull the tile off the surface. C1 tensile strength is usually sufficient in all indoor settings (apart from very challenging industrial environments). More interesting are S1 and S2, which indicate the elastic deformation capability of the adhesive. Tile adhesives that are not classified as S1 or S2 are legal to use but have no defined elasticity and can be as hard as cement.

Today's ceramic tiles are generally sealed and have virtually no absorbency, and they often have a white release agent on the tile surface to prevent the tile from fusing to the mould during production. Unfortunately, this release agent makes it harder for the adhesive to bind. This is why you should take care to choose adhesives with maximum bonding strength to avoid poor adhesion. Adhesives with S2 have the greatest flexibility and thus also the maximum adhesion.

Product overview

mira tile adhesives - the 4 strong!

	<ul style="list-style-type: none"> • C2TE S1 • Medium flexibility • Low dust • M1 and EmiCode • Low-alkaline white cement • No traceable chromium (VI) 	<p>mira 3110 unifix</p> <p>White cement-based, plastic-reinforced adhesive that can be used for most types of tiles and natural stone in sizes up to 30 x 30 cm. Surfaces of rendered brickwork, filler, plaster and silicate boards, lightweight concrete and concrete substrates with moderate risk of movement and residual waste. For mounting of tiles on wet-room membranes. Recommended for tile work in residential and office buildings as well as light industry etc. indoors. 15 kg sack.</p>
	<ul style="list-style-type: none"> • C2TE S2 • High flexibility • Low dust • M1 and EmiCode • Low-alkaline white cement • No traceable chromium (VI) 	<p>mira 3130 superfix</p> <p>White adhesive with maximum adhesion and flexibility. Can be used for all types of indoor surfaces just like 3110 unifix and outdoors on terraces and balconies, as well as for industrial applications, basins etc. Suitable for mounting of sealed non-absorbent tiles. Can be used on all types of mira membranes, epoxy surfaces and old tiles etc. When using with large-format tiles on floors (60 x 60 cm and larger), 3250 gigafix floor is recommended. 15 kg sack.</p>
	<ul style="list-style-type: none"> • C2E S2 • High flexibility • Low dust • M1 and EmiCode • Low-alkaline white cement • No traceable chromium (VI) • Large format tiles for floor 	<p>mira 3250 gigafix floor</p> <p>White self-compacting adhesive for mounting large-format tiles on the floor (not recommended for tile formats smaller than 20 x 20 cm). The tile adhesive is pressed in and distributed over the entire tile surface with short vibrating motions. Large-format tiles with release agent on the back should have a thinly scraped coating of adhesive before mounting. When working with levelling sticks, 3250 gigafix floor ensures that the tile adhesive follows the tile upon level adjustment. 15 kg sack.</p>
	<ul style="list-style-type: none"> • C1TE S2 • High flexibility • Low dust • M1 and EmiCode • Low-alkaline white cement • No traceable chromium (VI) • 30% greater coverage 	<p>mira z-fix excellent</p> <p>White, lightweight tile adhesive with maximum flexibility. Can be used for most types of tiles, natural stone etc. in residential areas, office spaces, and light industrial indoor settings. Particularly well-suited to large-format tiles on walls and floors in residential areas and similar, as it is easy to mix during application and installation. Covers 30% more area than traditional tile adhesives. It is recommended that tiles with a release agent on the adhesive side are given a thinly scraped coating of adhesive before mounting. For large-format tiles on floor surfaces (60 x 60 cm and larger) we recommend 3250 gigafix floor. 10 kg sack.</p>

see our full assortment of adhesives at www.mira.eu.com

Other classifications

M1

Products labelled with M1 live up to strict requirements for VOC emissions laid down by the Building Information Foundation RTS in Finland. This guarantees that the products contribute towards a healthy indoor climate with extremely low emissions of harmful substances and minimal nuisance odour.



EMICODE

Products labelled with EmiCode live up to strict requirements for VOC emissions laid down by the German organisation for consumer protection, GEV. This guarantees that the products contribute towards a healthy indoor climate with extremely low emissions of harmful substances.



LOW DUST

Our "Low Dust" products for cast-filling, grouting and tile adhesives are developed to generate less dust while working, a lighter cleaning of tools, and easier mixing and application – in brief, a better working environment for you and your colleagues.

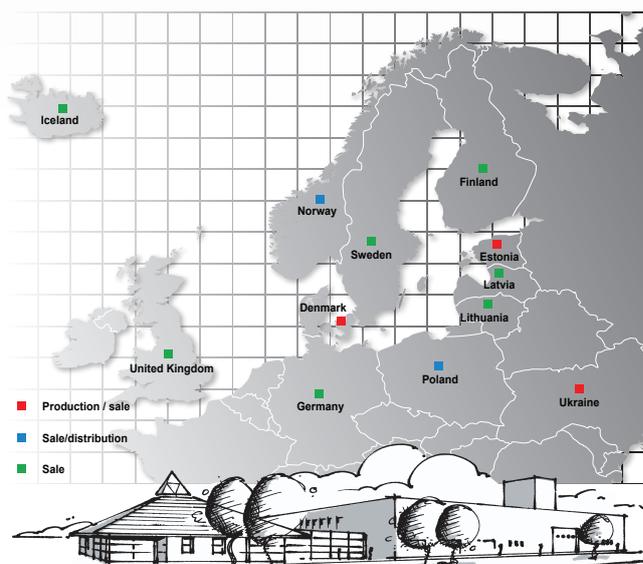


www.mira.eu.com

mira byggeprodukter a/s

For over 60 years, mira byggeprodukter a/s has developed and manufactured cement-based products for both professional and private customers. The company specialises in products for tiling and grouting of ceramic tiles, waterproofing of wet rooms, screeding and levelling, and more.

The group's head office is located next to its factory in Gadstrup, Denmark. In addition, we have factories and/or sales offices in the Nordic and Baltic countries as well as in the UK, Poland, and Ukraine.



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