



MASTER LIGHT

Lightweight improved professional single component cement adhesive with reduced slip and extended open duration for tiling



C2TE

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MASTERLIGHT

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PRODUCT DESCRIPTION

MASTERLIGHT is a lightweight single component professional cement based adhesive of a powder form in white or grey. Improved with reduced slip and extended open duration, of class *C2TE* according to EN 12004, for tiling on both internal or external floors and walls.

The adhesive is suitable for laying tiles in ceramic, porcelain, stoneware, single-fired, double-fired, clinker, stone material, mosaics on non-absorbent flooring or on traditional walls with cementitious render, plaster or plasterboard walls suitably prepared, cement screeds, also where underfloor heating is installed, existing surfaces clad in tiles, slabs and natural stone or cured concrete.

COMPOSITION

MASTERLIGHT is a special formula consisting of high resistance cements and synthetic resins to increase adherence to surfaces and flexibility, light micro spherical charges, using selected aggregates and other specific additives to improve application, avoiding vertical sliding of tiles and the product has extend opening time.

SUBSTRATES

Before applying the adhesive **MASTERLIGHT**, make sure that the surfaces are stable, clean and dry, free from oil or grease and that they are flat and normally absorbent. On gypsum based plaster and/ or anhydrite screeds apply a coat of **PRIMER ACRILICO** at least 4 hours before applying the adhesive. Proceed with the same treatment on old, peeling or inconsistent cement plaster. For laying ceramic tiles on existing floors, spread a layer of **MICROGRIP** primer 2 hours before applying the cement adhesive to the new floor.

MIXING AND APPLICATION

Pour a 15 kg bag of **MASTERLIGHT** in about 8.0-8.5 litres of clean water and mix at a low rate with an electric cement mixer until a smooth, lump-free mixture has formed. Allow the mixture to rest for about 10' minutes, then stir again briefly before use.

Spread the product using a serrated trowel to a maximum thickness of 10 mm. Apply first a thin layer to the area to be covered using the smooth side of trowel, proceed to apply thickness to the adhesive using serrated side.

The coating on the back of the tiles must be at least equal to 60-70% of the area to cover or interior walls of civilian use and of 100% for outdoor applications. When applying tiles with ridges in the back (dovetail) apply the adhesive to fully cover the back with the double spreading method. For applying tiles using levelling spacers apply the adhesive to fully cover the back with the double spreading method. Apply the product leaving a gap of at least 2 mm between one tile and the next. Apply pressure on the tiles in order to obtain a more complete surface contact as possible between the tiles, adhesive and surface. Make sure that during application a surface film does not form on the adhesive applied. This occurs mainly when product is applied at high temperatures or in the presence of strong wind, preventing perfect adhesion between the adhesive and the tile: in this case it is advisable to remove the adhesive applied and if necessary to use "fresh" product. Wait at least 8 hours before grouting joints on walls, at least 24 hours before grouting floor joints with **JOINTFIX**.

COVERAGE

1.5-2.5 kg per m².

COLOUR

White or grey.

PACKAGING

15 kg bags on disposable 945 kg pallet (63 bags) protected by waterproof plastic wrap.

STORAGE

12 months from date of manufacture if stored in unopened original packaging in a dry and frost-free place.

RECOMMENDATIONS

Avoid applying with temperatures below + 5°C or above + 35°C. Avoid applying to surfaces that are dusty, unstable or inconsistent. Do not apply to surfaces that are frozen, thawing or if freezing temperatures are expected within 24 hours. Do not apply adhesive thickness greater than 10 mm. Apply tiles on fresh adhesive using a serrated trowel appropriate to the size of the floor. Apply a double layer of adhesive for external use. Do not use on surfaces that are too large to avoid exceeding the open duration time.

PRODUCT DATA

<i>Appearance</i>	Powder
<i>Colour</i>	White or grey
<i>Dry bulk density</i>	~ 870 kg/m ³



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APPLICATION DATA

Maximum aggregate size	≤ 0,6 mm	
Water content of mixture	55-57%	
Mixing ratio	1 bag + 8.0-8.5 ℓ of water	
Minimum application temperature	+ 5 °C	
Maximum application temperature	+ 35 °C	
Maximum thickness of application	10 mm	
Open time	≥ 30 minutes	EN 1346
Adjustability time	≥ 30 minutes	
Ready to walk on	≥ 24 hours	
Ready for grouting on wall	≥ 8 hours	
Ready for grouting on floor	≥ 24 hours	
Ready for use	≥ 7 days	

PERFORMANCE DATA

Reaction to fire	F Class	EN 13501-10
Early tensile adhesion strength	NPD	EN 1348
Initial tensile adhesion strength	1.38 N/mm ²	EN 1348
Tensile adhesion strength after heat ageing	1.65 N/mm ²	EN 1348
Tensile adhesion strength after water immersion	1.53 N/mm ²	EN 1348
Tensile adhesion strength after freeze-thaw cycles	1.52 N/mm ²	EN 1348
Slip	0.24 mm	EN 1308
Open time	1.46 N/mm ² after not less than 30 minutes	EN 1346
Release of dangerous substances	See MSDS	EN 12004

ACCORDING TO



EN 12004

Improved cement adhesive with reduced slip and extended open duration for internal and external tiling C2TE



EN ISO 16000-9

A+ CLASS

The management system has been certified according to:

EN ISO 9001
EN ISO 14001
BS OHSAS 18001

Product for professional use. The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site www.vimark.com.



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HOW TO CHOOSE

To make the correct choice of adhesive you must take into account the nature of the substrate, the composition of the product to be adhered and the intended use of the surface. The data and the instructions given in the table below are based on the best tests and laboratory experiences. After a careful assessment of site conditions and/or area of use, materials other than those mentioned may be used. For cases not listed in the table, refer to the specific technical data sheet of the product or contact our technical service team.

EXTERNAL FLOORING

TILES TO APPLY	Cotto, single and double fired tiles	Glass mosaic or ceramic	Porcelain, Clinker		Thin Porcelain		Marble and natural stone
			≤ 2000 cm ² (Larger side < 60 cm)	≥ 2000 cm ²	< 5000 cm ²	≥ 5000 cm ²	
SUBSTRATE							
Cement screeds	MASTERLIGHT MASTERFLEX MASTERFIX + S2 PLUS	MASTERLIGHT MASTERFLEX MASTERFAST MASTERFIX + S2 PLUS	MASTERFLEX MASTERLIGHT MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFLEX MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS
	MASTERLIGHT MASTERFLEX MASTERFIX + S2 PLUS	MASTERLIGHT MASTERFLEX MASTERFAST MASTERFIX + S2 PLUS	MASTERFLEX MASTERLIGHT MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFLEX MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS
Surfaces sealed with FLEXO system	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS			

NOTE

The application of adhesives to floors destined for intense, medium and heavy traffic must be made with the technique of double coating, the adhesive must be applied on both the back of the tile as well as the floor.

FACADE

TILES TO APPLY	Cotto, single and double fired tiles	Glass mosaic or ceramic	Porcelain, Clinker		Thin Porcelain		Marble and natural stone
			≤ 2000 cm ² (larger side < 60 cm)	≥ 2000 cm ²	< 5000 cm ²	≥ 5000 cm ²	
SUBSTRATE							
Cement plaster	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS
Concrete	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS

NOTE

The application of adhesives to facades must be made with the technique of double coating, the adhesive must be applied on both the back of the tile as well as the substrate. For the adhesion of formats with a side larger than 30 cm or weight superior than 40 kg/m² we recommend considering and using anchoring and mechanical clamps.



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TUBS AND POOLS

TILES TO APPLY	Cotto, single and double fired tiles	Glass mosaic or ceramic	Porcelain, Clinker		Thin Porcelain		Marble and natural stone
			$\leq 2000 \text{ cm}^2$ (larger side < 60 cm)	$\geq 2000 \text{ cm}^2$	< 5000 cm^2	$\geq 5000 \text{ cm}^2$	
SUBSTRATE							
Cement screeds, concrete, Surfaces sealed with FLEXO system	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS

INTERNAL FLOORING

TILES TO APPLY	Cotto, single and double fired tiles	Glass mosaic or ceramic	Porcelain, Clinker		Thin Porcelain		Marble and natural stone
			$\leq 2000 \text{ cm}^2$ (larger side < 60 cm)	$\geq 2000 \text{ cm}^2$	< 5000 cm^2	$\geq 5000 \text{ cm}^2$	
SUBSTRATE							
Cement screeds	MASTEFIX MASTERLIGHT MASTERFLEX	MASTERLIGHT MASTERFLEX	MASTERFLEX MASTERLIGHT MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERLIGHT MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS			
Floors or concrete slabs	MASTERLIGHT MASTERFLEX	MASTERLIGHT MASTERFLEX					
Anhydrite screeds*	MASTEFIX MASTERLIGHT MASTERFLEX	MASTERPLUS MASTERFIX + S2 PLUS			MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFAST MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS
Screeds on underfloor heating	MASTERLIGHT MASTERFLEX MASTERPLUS MASTERFIX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS			
Existing floors in ceramic, natural stone, etc. **	MASTERLIGHT MASTERFLEX MASTERPLUS MASTERFIX + S2 PLUS	MASTERLIGHT MASTERFLEX MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS			
Surfaces sealed with FLEXO system	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS			MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS

NOTE

* After application of ACRYLIC PRIMER or MICROGRIP

** After application of MICROGRIP

The application of adhesives on screeds with underfloor heating, floors expecting high traffic or in environments with high thermal and mechanical stress the technique of double coating must be applied, the adhesive must be applied on both the back of the tile as well as the substrate



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INTERNAL WALLS

TILES TO APPLY	Cotto, single and double fired tiles	Glass mosaic or ceramic	Porcelain, Clinker		Thin Porcelain		Marble and natural stone
			$\leq 2000 \text{ cm}^2$ (larger side < 60 cm)	$\geq 2000 \text{ cm}^2$	< 5000 cm^2	$\geq 5000 \text{ cm}^2$	
SUBSTRATE							
Cement plaster	MASTEFIX MASTERLIGHT MASTERFLEX						
Concrete				MASTERLIGHT MASTERFLEX MASTERPLUS	MASTERFAST MASTERFLEX MASTERPLUS	MASTERFAST MASTERFLEX MASTERPLUS	MASTERFAST MASTERFLEX MASTERPLUS
Autoclaved cellular concrete blocks *	MASTERLIGHT MASTERFLEX	MASTERLIGHT MASTERFLEX MASTERFAST	MASTERLIGHT MASTERFLEX MASTERFAST	MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS
Gypsum based plaster*	MASTEFIX MASTERLIGHT MASTERFLEX						
Plasterboard*							
Surfaces sealed with FLEXO system	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS	MASTERPLUS MASTERFIX + S2 PLUS MASTERFLEX + S2 PLUS

NOTE

* After application of PRIMER ACRILICO or MICROGRIP

The application of adhesives in environments with high thermal and mechanical stress the technique of double coating must be applied, the adhesive must be applied on both the back of the tile as well as the substrate.



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