

# UNI GROTTO

Company with Quality Management System certified by DNV = ISO 9001: 2008 =



TECHNICAL ASSISTANCE



INSURANCE GUARANTEE



TECHNICAL MEETINGS



PROFESSIONAL USE

## TECHNICAL FEATURES.

Unigrotto grouting compounds consist of cement, aggregates of graded particle size and special additives, and have been formulated to harden rapidly with a minimum of shrinkage, and to provide high mechanical strength combined with an attractive appearance. They are available in various colours and in three different types: for joints of 0 to 5 mm, 2 to 12 mm, and 5 to 15 mm in width.

## METHODS OF USE AND CONTRA-INDICATIONS.

For perfect grouting of joints, the mortar used for fixing the tiles must be sufficiently dry to prevent any residual humidity from evaporating and creating unevenness in the colour of the grouting compound. If a specific cement-based adhesive has been used, grouting can be carried out after just 24 hours for wall tiling and 1-2 days for floor tiling. If the substrate is already completely dry, when working with absorbent tiles, especially in high temperatures, it is advisable to moisten the joints to be filled, slightly and evenly. The joints must also be free from dust or other materials that may adversely affect adhesion. If it is considered essential to fix twice-fired wall tiles in contact with each other (i.e. without any joint at all), it is vital to clean the grouting compound with a damp sponge and moisten it again with the same system and more water the following day. If this precaution is not taken, Unigrotto 0-5 may fail to harden sufficiently, because by the time that the cement starts to set (after about 4 hours), much of the water in the mix will have been absorbed by the tiles.

## FIELDS OF APPLICATION.

Grouting of joints between ceramic floor and wall tiles of all types and sizes, both indoors and outdoors. By adding CEMLATEX GIUNTI in place of water, the product becomes more flexible and impermeable, and is recommended for grouting joints in:

- systems subject to slight dimensional variations;
- heated floors;
- tiled areas subject to adverse environmental conditions, such as swimming pools, cold rooms, terraces, and surfaces with a high degree of exposure to water;
- flooring in areas subject to intense traffic, such as supermarkets, motorway service stations, shopping centres, and public premises in general;
- old flooring with deteriorated joints.

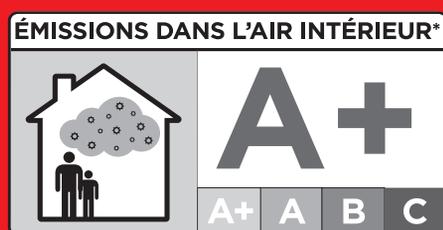


## PREPARATION OF THE MIXTURE.

Mix the powder with clean water (30% for Unigrotto A 0-5 mm, 23/25% for Unigrotto 2- 12 and 19% for Unigrotto 5-15), using a suitable electric mixer at low speed, until the mix is homogeneous and free from clotting. The grouting compound is now ready for use and remains workable for about one hour.

## APPLICATION.

Spread the grouting compound with a flexible, rubber spreader, exerting sufficient pressure to ensure that it penetrates to the bottom of the joint. Wait until the product has thickened enough (a few minutes), then remove the excess by wiping the treated surfaces with a damp sponge. Repeat the operation once the product has hardened.



## WARNINGS

To do a good job, it is important to follow the instructions, and in particular, to choose the right moment to wipe with a damp sponge. If done too soon, some of the grouting compound may be pulled out of the joints, and if done too late it requires considerable effort, which may damage the surface of the tiles. "Cotto toscano" and highly absorbent tiles could be irreparably stained by the grouting compound and it is therefore imperative to treat them previously with a suitable product. Do not add water or any more Cemlatex Giunti once the grouting compound starts to harden, as this would adversely affect colour tone and final strength properties.

## COVERAGE.

Coverage depends on the size and thickness of the tiles and on the width of the joints. For details on colours and coverage, consult the table in the "grouting compound colour range" folder.

## PACKAGING.

Unigrotto A 0-5 is packed in 5 kg plastic bags (pallets of 400 and 600 kg), 20 kg poly-lined bags (pallets of 1,260 kg) and in 1 kg boxes (packs contain 12 pieces). Unigrotto 2-12 and 5-15 are available in 5 kg plastic bags (pallets of 400 and 600 kg) and in 20 kg polylined bags (pallets of 1,260 kg).

## STORAGE.

In the original closed package, in a cool dry place.

## DURATION.

Colours Off-White, Brown, Grey, Light Grey, Crocus, Anthracite and Black: 9 months from the date listed on the package; in conformity with the directive 2003/53/CE informing that this time expiration regards the efficiency of the reducing agent in respect to hydrosoluble Chrome VI. Colours White, Beige, Yellow, Camel, Tobacco, Green, Azure, Blue, Magnolia, Pink and Red: 12 months.

	Unigrotto (mm) <b>0-5</b>	Unigrotto (mm) <b>5-15</b>	Unigrotto (mm) <b>2-12</b>
APPEARANCE:	IMPALPABLE POWDER	GRANULAR POWDER	SLIGHTLY GRANULAR POWDER
COLOUR:	SEE "GROUTING COMPOUND COLOUR RANGE"		
CONSERVATION:	IN THE ORIGINAL CLOSED PACKAGE, IN A COOL DRY PLACE		
DURATION:	COLOURS OFF-WHITE, BROWN, GREY, LIGHT GREY, CROCUS, ANTHRACITE AND BLACK:		9 MONTHS FROM THE DATE LISTED ON THE PACKAGE; IN CONFORMITY WITH THE DIRECTIVE 2003/53/CE INFORMING THAT THIS TIME EXPIRATION REGARDS THE EFFICIENCY OF THE REDUCING AGENT IN RESPECT TO HYDRO-SOLUBLE CHROME VI.
	COLOURS WHITE, BEIGE, YELLOW, CAMEL, TOBACCO, GREEN, AZURE, BLUE, MAGNOLIA, PINK AND RED:		12 MONTHS
TOXICITY:	NONE	NONE	NONE
INFLAMMABILITY:	NONE	NONE	NONE
MIX RATIO:	30 % OF POWDER	19% OF POWDER	23%±25% OF POWDER
VOLUMETRIC MASS OF MIX:	≈ 2,0 gr/cm <sup>3</sup>	≈ 2,2 gr/cm <sup>3</sup>	≈ 2,0 gr/cm <sup>3</sup>
POT LIFE OF MIX:	1 HOUR	1 HOUR	1 HOUR
APPLICATION TEMPERATURE:	+5 °C TO +30 °C	+5°C TO +30 °C	+5°C TO +30 °C
COVERAGE:	SEE "GROUTING COMPOUND COLOUR RANGE"		
WALKOVER TIME:	1 DAY	1 DAY	1 DAY
READY FOR NORMAL USE:	2 DAYS	2 DAYS	2 DAYS
<b>PERFORMANCE AFTER 28 DAYS OF HARDENING</b>			
RESISTANCE TO HUMIDITY:	EXCELLENT	EXCELLENT	EXCELLENT
RESISTANCE TO TEMPERATURE EXTREMES:	-30°C TO +80 °C	-30°C TO +80 °C	-30°C TO +80 °C
FLEXIBILITY:	SCARCE (GOOD WITH CEMENTLATEX GIUNTI)		
FLEXURAL STRENGTH (EN 12808-3):	> 3,5 MPa	> 3,5 MPa	> 3,5 MPa
COMPRESSIVE STRENGTH (EN 12808-3):	> 15 MPa	> 15 MPa	> 15 MPa
ABRASION RESISTANCE (12808-2):	< 1000 mm <sup>3</sup> of material removed	< 1000 mm <sup>3</sup> of material removed	< 1000 mm <sup>3</sup> of material removed
WATER ABSORPTION AT 30 MINUTES (12808-5):	< 2 grams of water	< 2 grams of water	< 2 grams of water
WATER ABSORPTION AT 240 MINUTES (12808-5):	< 5 grams of water	< 5 grams of water	< 5 grams of water
LINEAR SHRINKAGE (EN 12808-4):	< 2 mm / m	< 2 mm / m	< 2 mm / m
CONFORMS TO (EN 13888):	CG2	CG2	CG2

**PRODUCT TECHNICAL DATA**

NB: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.

*Unitech Team*



**MADE IN ITALY**

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