

# IMPER 21

**Waterproofing and elasticizing additive for cementitious grouts.**



## Technical features

Liquid polymeric additive specific for improving the features of the grouts. It improves the mechanical resistance, the deformability and the water-repellent features.

## Applications

IMPER 21 mixed with the sealants FUGAMAGICA and ADESIT, completely replacing the water, is used for the following applications:

- grouting of floor tiles with large joints and subject to heavy traffic.
- Grouting of floors to be polished on the spot.
- Grouting of ceramic tiles installed outdoors or in swimming-pools.
- Grouting of tiles subject to weak chemical attack (e.g. standard detergents).
- Mixed with VETROSYSTEM for the outdoor application of glass bricks.

## Important warnings

- Do not use IMPER 21 for joints subject to strong chemical attack (use ADEPOXY or ADEPOXY ARREDO).
- Do not use IMPER 21 for flexible expansion joints or on structures subject to movements (use suitable sealants by ADESITAL).
- Do not use too fluid mixes to avoid floating of colour or of liquid.
- Do not use IMPER 21 for grouting terracotta floors or porous surfaces.
- For grouting polished porcelain stoneware make a preliminary test to check the cleanability.

## Mix preparation

Shortly stir IMPER 21 before using it. Mix the recommended quantity of IMPER 21 with the sealants FUGAMAGICA or ADESIT by mechanical stirrer with low speed, till getting a smooth and clogless mix. The mix must then rest for about 10 minutes before using it.

## Joint preparation

Before grouting, check if the joints are clean and thus remove the residues of adhesive used for bonding tiles. Grouting must be made after the adhesive has set to prevent possible tile detaching (4-8 hours for walls; 24-36 hours for floors). In traditional grout applications, it is recommended to grout walls after 2-3 days and floors after 8-10 days. When grouting very absorbing tiles, their edges must be lightly wetted, to prevent the sealant from drying too fast, thus causing cracks and non-even colour.

## Application

Fill the joints carefully pressing strongly by a smooth rubber squeegee to avoid gaps. Then, remove the excess sealant from the tile surface by the same squeegee used diagonally. Wait for the mix to start hardening getting dull, then clean by a damp sponge. The final cleaning must be made by a dry cloth or a felt squeegee, when the sealant has hardened (even after 1 day).

Note: if the excess sealant is cleaned too early, joints can be partially emptied. If, on the contrary, it is made too late (over 24 hours), wait at least 7-8 days and then clean with the de-fouling cleaner ADESIT CLEAN (see technical sheet). In hot and windy days the grouting must be kept wet with clean water, after having started hardening.

## Specifications

Grouts used for joints must be mixed with a polymeric additive increasing the mechanical resistance, the deformability and the water-repellent features, e.g. IMPER 21 by ADESITAL S.p.A. replacing the water completely.

**Technical data** (at +23°C and 50% R.H.)

Appearance	liquid
Colour	white
Volume mass	1 g/cm <sup>3</sup>
Solid residue	10%
pH	8
Storage	24 months in the original packaging and in a dry place PROTECT AGAINST FROST
Safety	not hazardous Please check the information on the package and on the safety sheet.
Inflammability	no

**Application data**

IMPER 21 + FUGAMAGICA Mixing ratio:	
100 parts of:	FUGAMAGICA 0-4 with 30 parts of IMPER 21
	FUGAMAGICA 2-12 with 28 parts of IMPER 21
	FUGAMAGICA 0-6 BIO with 28 parts of IMPER 21
	FUGAMAGICA 3-20 BIO with 25 parts of IMPER 21
	ADESIT SF with 30 parts of IMPER 21
	ADESIT SG with 25 parts of IMPER 21
Mix pH	12
Pot life	2 hours
Application temperature	from +5°C to +35°C
Ready for traffic	after 24 hours
Resistance to humidity	excellent
Resistance to temperature	excellent
Resistance to solvents and oils	excellent
Flexibility	fair
Final hardening	after 14 days
Coverage	depending on the grout quantity
IMPER 21 packages	25-5 l drum
	1 l bottle, 12-piece box

**Warning:** The above indications and rules correspond to our best experience, but shall be deemed as merely indicative and shall be confirmed by exhaustive practical tests; thus, before using the product, the operator shall determine if it is suitable for its intended use and shall undertake every responsibility resulting from its use. PROFESSIONAL USE ONLY