

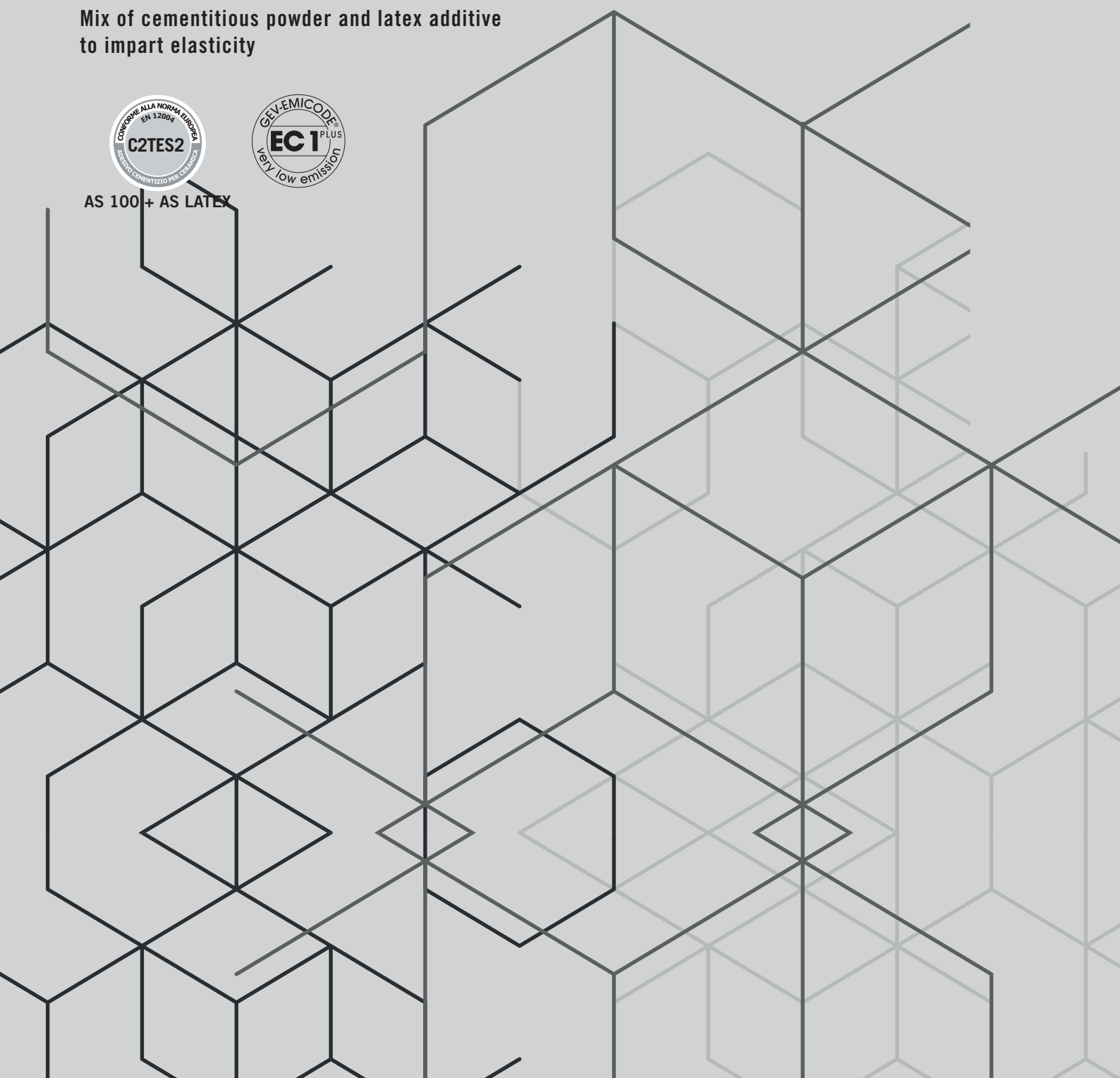
MOSAICO⁺

AS 100 AS LATEX

Mix of cementitious powder and latex additive
to impart elasticity



AS 100 + AS LATEX



AS 100 is an improved (2) cementitious (C) adhesive, with anti-slip properties (T) and with extended open time (E), in class C2TE.
 AS LATEX is a latex intended for mixing 1:1 with AS 100, in order to meet the requirements set by the EN 12004 standard for the following classifications:

Product	Classification according to EN 12004	Description
AS 100 + AS LATEX ratio 1:1	C2TES2	Highly deformable improved cementitious adhesive with extended open time

WHERE TO USE

Bonding on internal and external floors or vertical surfaces of glass or ceramic mosaic on paper or mesh backings, including very heavy types.

Some application examples

- Installation of vitreous or ceramic mosaic on non-absorbent substrates;
- Installation of vitreous or ceramic mosaic in swimming-pools, ponds or similar locations;
- Installation of vitreous or ceramic mosaic on deformable substrates (plasterboard panels, styrene, fibre-cement board).

TECHNICAL NOTES

AS100+AS LATEX is a mortar with the following characteristics:

- White colour that highlights and emphasises the shades of coloured vitreous mosaics;
- Creamy, easily worked mix;
- Excellent bonding to all standard construction materials;
- Highly thixotropic;
- Particular long open and adjustable times, which simplify installation procedures.

RECOMMENDATIONS

The AS 100+AS LATEX mix must never be used:

- For installation in ponds, swimming-pools or cold stores that need to be put into service quickly;
- For installation on metal, rubber, PVC and linoleum surfaces;

APPLICATION PROCEDURES

Preparing the substrates

All substrates which are to receive AS 100 + AS LATEX must be flat, mechanically strong and free from loose parts, grease, oil, paint, wax, etc. Precast concrete elements or in situ concrete must have been cured for at least 1 month in favourable weather conditions.

Cementitious substrates must not be subject to shrinkage once the mosaic has been installed.

Therefore, plasters with controlled shrinkage are used; otherwise, in case of plasters with normal shrinkage, it is necessary to wait until they have cured to a moisture content below 3%.

Surfaces that are too hot due to exposure to direct sunlight should be cooled by wetting with water.

Gypsum substrates and anhydrite screeds must be perfectly dry (maximum residual moisture 0.5%), free from dust and must be treated with Primer G or Eco Prim T; in areas subject to serious damp, the surface must be waterproofed.

Mixing ratios

Mixing ratios vary depending on the adhesive performances required.

AS LATEX mixed with AS 100 with a 1:1 ratio creates a highly deformable adhesive (class S2 under EN 12004), suitable for all structures liable to settling due to substrates or jet shooting, or some types of peculiar support materials such as styrene.

Mixing ratios are as follows:

Product	Mixing ratio Parts by weight
AS 100 + AS LATEX in ratio 1:1	1 x 25 kg bag of AS 100 to be mixed with one 9 l pack of AS LATEX

Preparing the mix

Pour the AS 100 powder into the AS Latex liquid, stirring the mix continually with a low-speed mechanical mixer until it becomes a smooth, lump-free paste. Leave to stand for a few minutes, stir briefly and then proceed with the application.

Spreading the mix

Apply the adhesive mix to the substrate with a toothed spatula. Choose a towel which guarantees effective buttering.

For good adhesion, spread an initial thin layer of the adhesive mix on the substrate using the smooth side of the spatula and then immediately apply another layer of the thickness required using the toothed side. Use a toothed spatula that will ensure effective buttering of mosaic of the specific type and size to be laid.

Installing the mosaic

In high temperature and humidity conditions, the open time of AS 100 + AS Latex will be slightly shorter.

When installing on external surfaces, in ponds or swimming-pools, we recommend a coverage for the structure

GROUTING

With AS 100 + AS Latex, grouting with epoxy grouts must not be carried out until the adhesive has cured correctly, which will depend on the weather conditions and temperatures on site.

SET TO LIGHT FOOT TRAFFIC

After grouting, light foot traffic is permissible after at least 24-36 hours (further to inspection to ensure that the grout has cured correctly, which will depend on the weather conditions and temperatures on site).

READY FOR USE

Surfaces are ready for use after approximately 8-10 days.

Ponds and swimming-pools can be filled after approximately 8-10 days.

CLEANING

Tools can be cleaned using plenty of water before the adhesive starts to set. After setting, cleaning becomes very difficult, although a solvent such as white spirit may be of assistance.

COVERAGE (kg/m²)

	Product	Coverage (1 x 25 kg bag of AS 100 + 1 x 9 l pack of AS Latex APPROXIMATELY 10m ²)	
		powder	AS LATEX
Mosaics and small tiles	1 x 25 kg bag of AS 100 to be mixed with one 9 l pack of AS LATEX	2.5 kg	0.9 l

PACKAGING

AS 100 is available in 25 kg bags.
AS Latex is available in 9 l cans.

STORAGE

AS100 and AS LATEX can be stored for 24 months in the original packaging. Protect from frost and damp.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

AS 100 is irritant; contains cement which triggers an irritant alkaline reaction, and allergic effects in sensitive individuals, on contact with sweat or other bodily fluids.

May be harmful to the eyes. In case of contact with the eyes or skin, wash immediately with plenty of water and seek medical advice. Protective gloves and goggles must be worn.

AS LATEX is not hazardous under the regulation standards on the classification of mixtures. Protective gloves and goggles should be worn, and the usual precautions for handling chemicals should be taken.

For additional, complete information on the safe use of the above products, users are urged to consult the latest edition of the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.**IMPORTANT NOTES**

While accurate to the best of our knowledge, the information and recommendations provided above must always be taken as purely guideline and must be confirmed by full practical trials. Therefore, before using the product, prospective users are responsible for determining whether or not it is suitable for the intended use, and accept all liabilities which may derive from its use

SPECIFICATION**AS 100 + AS LATEX
DILUTED 1:1**

Installation of mosaic of all kinds with improved white deformable cementitious adhesive, with no vertical slip and long open time, obtained by mixing cementitious adhesive (Mosaico+ S.r.l. AS 100) with special latex (Mosaico+ S.r.l. AS LATEX) in ratio 1:1. The mixture is classified as C2TE S2 in accordance with EN 12004.



AS 100 TECHNICAL DATA (TYPICAL VALUES)

Complies with the following standards:

- European EN 12004 C2TES2 (AS 100 + AS LATEX in ratio 1 : 1)
- ISO 13007-1 C2TES2 (AS 100 + AS LATEX in ratio 1 : 1)

AS 100 PRODUCT IDENTITY		
Consistency	powder	
Colour	white	
Apparent density (kg/m ³):	1,350	
Dry solid content (%)	100	
EMICODE:	EC1 R Plus - very low emission	
AS 100 APPLICATION DATA (AT +23 °C and 50% R.H.)		
Mixing ratio	1 x 25 kg bag of AS 100 to be mixed with 9 litres of AS LATEX in ratio 1:1	
Consistency of mix	very creamy	
Density of mix (kg/m ³)	1,500	
pH of mix	13	
Pot life	8 hours approx.	
Application temperature	from +5°C to +40 °C	
Open time (according to EN1346)	> 30 minutes	
Adjustability time	30 minutes approx.	
Grouting wall joints	grouting must not be carried out until the adhesive has cured correctly, which will depend on the weather conditions and temperatures on site.	
Grouting floor joints		
Set to light foot traffic	after at least 24-36 hours (further to inspection to ensure that the grout has cured correctly, which will depend on the weather conditions and temperatures on site).	
Ready for use	refer to the technical data sheet of the grout used	
AS 100 FINAL PERFORMANCE		
Tensile adhesion strength according to EN1348 (N/mm ²) – initial adhesion (after 28 days) – adhesion after heating – adhesion after water immersion – adhesion after freeze-thaw cycles	1.5 1.4 1.3 1.4	
Resistance to alkalis	excellent	
Resistance to oils	excellent (poor to vegetable oils)	
Resistance to solvents	excellent	
Temperature when in use	excellent	
Deformability according to EN 12004 (AS 100 + AS LATEX diluted 1:1)	S2 - highly deformable	

AS LATEX TECHNICAL DATA (TYPICAL VALUES)

Complies with the following standards:


- European EN 12004 C2TES2 (AS 100 + AS LATEX in ratio 1 : 1)
- ISO 13007-1 C2TES2 (AS 100 + AS LATEX in ratio 1 : 1)


AS LATEX PRODUCT IDENTITY		
Consistency	liquid	
Colour	white	
Density (g/cm ³)	1.03	
pH	5-6	
Dry solid content (%)	35	
Brookfield viscosity (mPa·s)	40	
AS LATEX APPLICATION DATA (AT +23 °C and 50% R.H.)		
	AS 100 + AS LATEX diluted 1:1	
Mixing ratio	1 x 25 kg bag of AS 100 to be mixed with 9 litres of AS LATEX in ratio 1:1	
Consistency of mix	very creamy	
Colour	white	
Density of mix (kg/m ³)	1,450	
Open time (according to EN1346)	30 minutes	
Adjustability time	45 minutes	
Grouting wall joints	grouting must not be carried out until the adhesive has cured correctly, which will depend on the weather conditions and temperatures on site.	
Grouting floor joints		
Set to light foot traffic	after at least 24-36 hours (further to inspection to ensure that the grout has cured correctly, which will depend on the weather conditions and temperatures on site).	
Ready for use	refer to the technical data sheet of the grout used	
AS LATEX FINAL PERFORMANCE		
	AS 100 + AS LATEX in ratio 1:1	
Tensile adhesion strength according to EN1348 (N/mm ²)		
- initial adhesion (after 28 days)	2.1	
- adhesion after heating	3.0	
- adhesion after water immersion	1.3	
- adhesion after freeze-thaw cycles	1.4	
Deformability according to EN 12004 (AS 100 + AS LATEX in ratio 1:1)	> 2.5 S2 highly deformable	

MOSAICO+

Via Valle d'Aosta 46
41049 Sassuolo (MODENA)
Italy
tel. +39 0536 995811
fax. +39 0536 995899
info@mosaicopiu.it
www.mosaicopiu.it



 This symbol identifies that M o s a i c o + product A S 1 0 0 mixed with ASLATEX in 1:1 ratio, in accordance with EN 12004, becomes a highly deformable improved cementitious adhesive, with extended open time.

 This symbol identifies Mosaico+ products with very low volatile organic compound emissions certified by flooring product emission testing association GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.).

 Our environmental commitment
Mosaico+ products help architects and contractors in the realisation of innovative projects which hold LEED, "The Leadership in Energy and Environmental Design" certification, approved by the U.S. Green Building Council.