

# Isoflex

Elasticizing polymer in water dispersion for cement-based adhesives, for indoor and outdoor application.



MIXED WITH C1

## Fields of application:

- to apply floor and wall tiles of any size in porcelain stoneware, low thickness stoneware, thin stoneware, single and double fired material, glass mosaic, ceramic mosaic, solid natural or artificial stones and granites indoors on cured concrete, on cured cement-based screeds, on screeds made with Basecem or Basecem Pronto, on self-levelling products such as Planirapid Autolivellante or Planirapid Autolivellante Maxi, on smoothing plasters such as Rasoplan Tixo, on anhydrite screeds and on radiating floors. To apply wall tiles on traditional render, pre-mixed render, plasterboard, gypsum;

- to apply on façade, in high vehicle traffic areas, balconies, terraces, areas subject to sudden temperature changes and frost/thaw cycles;
- for tile over tile application of any size in porcelain stoneware, low thickness stoneware, thin stoneware, single and double fired material and ceramic mosaic indoors and outdoors after cleaning with Detergente Basico;
- professional use only.

## Characteristics:

**Isoflex** is an elasticizing latex for standard or rapid setting adhesives. The formula of Isoflex with elasticizing polymers in water dispersion able to control restoration conditions make it a must in the most severe installation situations. When it replaces the mixture water for adhesives classified C1 according to the norm EN 12004, or in a ratio of 1:1 of the mixture water for adhesives classified C2 according to the norm EN 12204, it increases the adhesion on the substrates and simultaneously decreases the elastic modulus increasing the deformability of the adhesives, that can therefore be classified S2 according to the norm EN 12002. Indicated for indoor and outdoor civil, commercial and industrial applications.

## Quality and Environmental Standards:

**Isoflex** undergoes constant, careful testing at our laboratories, in compliance with the legislation in force UNI EN ISO 9001/2015.

## Application:

**Isoflex** must be mixed in percentage or in replacement of the mixture water every 25 kg bag. Mix Isoflex and water where specified first with a low speed stirrer, then add it to the powder. Check that the substrate complies with norm EN 11493 point 7.3 as for the requirements of curing, integrity, surface sturdiness, dimensional regularity, residual humidity and rising damp. In very absorbing substrates or with minor crumbling pre-treat with Primer GS. Follow the norm EN 11493 point 7.9/7.11 for outdoor applications, in sizes with side  $\geq 60$  cm and in low thickness tiles. Apply a layer of adhesive also on the tile back side (backbuttering) in case of strong stresses or when required by the ceramic manufacturer. Create elastic expansion joints every 10 m<sup>2</sup> outdoors and every 25 m<sup>2</sup> indoors, every 4 m in sidewalks and skirting boards. In façade applications, comply with norm EN 11493 point 7.13.7 for evaluating the substrate, the installation and the use of anti-overturning hooks. The materials applied with **Isoflex** must be protected from the rain during the 6 hours following laying and must not be exposed to freezing temperatures or strong sunlight for at least 24h hours.

Characteristics	Application methods	Consumption
Improves adhesion Improves elasticity Increases mechanical strength Increases water-repellency Reduces the open time To be mixed with: CF Cemenfix, PF Premiofix, N2	By hand	1.5-2 kg/m <sup>2</sup> ratio 1:1
		<b>Storage</b> Shelf life of 24 months in the original packages at temperatures above +5°C. Do not expose to direct sunlight

Code	Product	Form and color	Packages	Pallet
300025	Isoflex	White latex	25 kg	500 kg
300205	Isoflex	White latex	5 kg	450 kg

**Warning:**

- do not use for laying damp-sensitive marble or re-constituted stone tiles;
- do not use for laying marble or stone materials subject to efflorescence;
- do not use for areas which have (need) to be ready for use in very short times;
- on gypsum or anhydrite bases, use **Primer GS** beforehand;
- do not use on wooden, metal, rubber, PVC or linoleum surfaces;
- bear in mind that mixing **Isoflex** with the adhesive, this may shorten its open time.


**Technical and application specifications**

Hazard classification as per Directive 99/45/CE:	<b>none</b>
Specific weight of mixture:	<b>1.5 g/cm<sup>3</sup> (with N2)</b>
Mixture pH:	<b>13</b>
Pot life:	<b>over 8 hours</b>
Application temperature:	<b>from +5°C to +40°C</b>
Open time (according EN 1346):	<b>approx. 20-30 minutes</b>
Adjustment time:	<b>approx. 45 minutes</b>
Joint sealant hardening time on walls:	<b>approx. 4/8 hours</b>
Joint sealant hardening time on floors:	<b>approx. 24 hours</b>
Walk-over time:	<b>24 hours</b>
Ready for use:	<b>approx. 14 days</b>
Baths and swimming pools ready for use:	<b>4 weeks for filling</b>

**FINAL PERFORMANCES SPECIFICATIONS EN 1348 (N/mm<sup>2</sup>) N2 + ISOFLEX**

Initial adhesion (after 28 days):	<b>2.40 N/mm<sup>2</sup></b>
Adhesion after immersion in water:	<b>1.65 N/mm<sup>2</sup></b>
Adhesion after freeze-thaw cycles:	<b>1.80 N/mm<sup>2</sup></b>
Adhesion after heat action:	<b>2.50 N/mm<sup>2</sup></b>
Acid resistance:	<b>poor</b>
Resistance to damp, solvents, oil, alkalis and ageing:	<b>excellent</b>
Temperature resistance:	<b>from -30°C to +90°C</b>
Deformability according to EN 12002:	<b>S2 - highly deformable</b>
Harmonised customs code:	<b>40021100</b>

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.