



Tile Adhesives & Grouts

ISOMIX FLEX

Technical Data Sheet

Reviewed: 06.06.2015



DESCRIPTION

ISOMIX FLEX is an extra strong, plastoelastic, cement based white acrylic adhesive for bonding wall and floor ceramic tiles. It contains high strength Portland cement, fine quality aggregates, special additives and resins, which offer excellent adhesion even to difficult non-porous surfaces. It shows high adhesion strength on horizontal and vertical substrates, elasticity and moisture resistance. It increases resistance to earthquake damage and is ideal for substrates with increased contraction – expansion properties. It is suitable for interior and exterior use. It is classified as type C2TE adhesive according to EN 12004.

ADVANTAGES

- Excellent adhesive strength
- Elasticity
- Excellent workability
- Excellent adhesion even on difficult substrates
- Moisture and frost resistant
- Excellent quality of raw materials
- Exterior and interior use
- Easy, clean and fast application

APPLICATIONS

- Bonding any kind of absorptive or non-absorptive tiles on walls or floors on various substrates such as plaster, concrete, plasterboard, cementboard, blockwork and most common building surfaces.
- Ideal for bonding granite and marble tiles, glass mosaic tiles or any kind of natural building material.
- Suitable for bathrooms, terraces, verandas, mosaics, old marble and floors with heavily used floors.

INSTRUCTIONS FOR USE

Substrate preparation

1. Substrates must be leveled, clean, free of oily residues, loose materials, dust etc.
2. Dampening of the substrate before application is recommended during summer period or for very absorptive surfaces, avoiding the creation of water puddles.

Mixing instructions

1. Add 6,5 – 7,5 kg of water in a clean bucket and add gradually under constant stirring 25kg of **ISOMIX FLEX**.
2. Using a low gear electrical mixer stir well until a uniform viscous mixture is formed.
3. Let the mixture stand for 5 minutes and stir again.
4. The working time of the mixture is 3 – 4 hours. Periodical stirring is advised while avoiding the addition of more water. Pot life may vary depending on ambient temperature and humidity.

Application

1. The mixture should be applied uniformly on the surface using a notched trowel - spatula according to the size of the tiles and floor or wall application.
2. The tiles should be fixed by pressing them in the desired position within 15 - 20 minutes in order to avoid skin formation. Less time is required for dry and adsorptive surfaces or under high temperatures.
3. All surplus adhesive must be removed whilst the adhesive is still wet using a dampened cloth or sponge, particularly along the grout lines.
4. Surfaces are ready for grouting within 24 hours for floor applications and 12 hours for wall applications, using **ISOMIX TILE GROUT**.

CLEANING

Remove as much material as possible from tools before cleaning. Clean all equipment immediately after use with soapy water.

REMARKS

- Do not add excess amount of water, as this will decrease adhesive's strength and waterproofing properties.
- Periodical stirring is advised while avoiding the addition of more water.

COVERAGE

Approximately 2,5 – 4 kg of dry mix /m² depending on surface condition.

TECHNICAL CHARACTERISTICS

Form: White cement based powder

Specific gravity of fresh product: 1750 kg/m³

Application temperature: +5°C - +35°C

Compressive strength after 28 days: 10,5 Mpa

According to EN 196

Flexural strength after 28 days: 4,0 Mpa According to EN 196

Adhesive strength 20°C: 2,17 N/mm² According to EN 1348

Adhesive strength 70°C: 1,5 N/mm² According to EN 1348

Adhesive strength after immersion in water: 1,35 N/mm²

According to EN 1348

Adhesive strength after freeze-thaw: 1,20 N/mm²

According to EN 1348

Open time: 20 - 30 min

Slip: < 0,2 mm

Evochem®

EVOCHEM S.A.

Tzaverdella place 13341, Fyli, Attica, Greece

Tel.: 210 5590460, 210 5590155 Fax: 210 5590244

E-mail: info@evochem.gr Website: www.evochem.gr





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	EVOCHEM S.A. Athens, Attica, Greece
EN 12004	
FLEX S 1000 improved cement based tile adhesive	
C2TE	

STORAGE

Store in dry and cool storage conditions at temperatures 5°C-30°C. Protect from moisture, frost and direct sunlight.

SHELF LIFE

At least 12 months in the above mentioned storage conditions. Products should remain in their original unopened sealed bags, bearing the manufacturers batch number.

ELASTIFICATION

ISOMIX FLEX may be elastified by adding 2 – 6 kg of ISOMIX ACR-300 acrylic resin plus the quantity of water required in order to reach the desired workability. The end product will be most suitable for professional and industrial applications, public areas and where an increased demand for elasticity and frost resistance is required such as substrates with increased contraction – expansion properties (swimming pools, terraces, floors with under floor heating, MDF, chipboards etc). The end product will be classified as type S1 adhesive according to EN 12002.

PACKAGING

25kg

PACKAGING	CODE	BARCODE
25kg	01779	5204094017547

HEALTH AND SAFETY INFORMATION



Eye Dam. 1: H318 Causes serious eye damage **Skin Irrit. 2: H315** Causes skin irritation **Skin Sens. 1: H317** May cause an allergic skin reaction **STOT SE 3: H335** May cause respiratory irritation **P102** Keep out of reach of children **P261** Avoid breathing dust/fume/gas/mist/vapours/spray **P271** Use only outdoors or in a well-ventilated area **P280** Wear protective gloves/protective clothing/eye protection/face protection **P304 + P340** IF INHALED: Remove person to fresh air and keep

comfortable for breathing **P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **P310** Immediately call a POISON CENTER or doctor **P302 + P352** IF ON SKIN: Wash with plenty of water and soap **P333 + P313** If skin irritation or rash occurs: Get medical advice/attention **P362 + P364** Take off contaminated clothing and wash it before reuse **P501** Dispose of the contents/container in accordance with the current legislation on waste treatment **EUH208**: Contains cement portland, chemicals. May produce an allergic reaction. Substances that contribute to the classification: cement portland, chemicals, Calcium dihydroxide

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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E-mail: info@evochem.gr Website: www.evochem.gr

