

Sigilflex

Elasticizing additive for cement-based sealants,
for water-repellency and increased mechanical performance.



Fields of application:

- it increases the elasticity and water-repellency of Sigilfuga FS and Sigilfuga FL in indoor and outdoor floors and walls;
- for floor and wall tiles of any size in porcelain stoneware, low thickness stoneware, thin stoneware, single and double fired material, glass mosaic, ceramic mosaic, glass bricks, solid natural or artificial stones, granites;
- it increases the mechanical performance of grouted surfaces subject to heavy thermal and crosswise stresses, such as outdoor façades, terraces, swimming-pools, fountains, saunas, spas, heating floors, premises with high traffic;

- it increases the mechanical performance of areas in frequent contact with water or subject to a light chemical action of chlorine, salts, organic matters, detergents and disinfectants;
- to grout masonry bathrooms and kitchens;
- professional use only.

Characteristics:

Sigilflex is an elasticizing latex for standard or rapid setting cement-based grouts. The formula of **Sigilflex**, with water dispersion polymers with elasticizing, efflorescence and shade controlling action, makes **Sigilflex** indispensable in all extreme grouting conditions in replacement of the mixture water of the cementbased grouts or in ratio 1:1 with water, increasing deformability and adhesion on the edges of the substrates and increasing the mechanical strength, by lowering the elastic modulus. Indicated for indoor and outdoor civil, commercial and industrial applications.

Preparation:

Sigilflex must be mixed in percentage or in replacement of the water, evaluating the dose depending on the final use of the surfaces and on the tile cleaning easiness. Mix **Isoflex** and water where specified first with a low speed stirrer, then add it to the powder till getting a creamy mixture free of lumps. Do not add other hydraulic binders or aggregates. Apply **Sigilfuga FS** or **FL** + **Sigilflex** with a rubber trowel filling the cavities completely, in diagonal direction to the joints. Clean with a sponge when **Sigilfuga FS** or **FL** + **Sigilflex** opacifies on the surface. Possible residues on the tiles may be removed, after setting, with **Detergente AC**. The quantities needed for any size and dimension of the joint may be calculated precisely in the site www.opera-adesivi.it/eng, on the page "consumption calculation".

Quality and Environmental Standards:

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

Characteristics	Application methods		Consumi	
Decreases absorption and porosity Improves elasticity Increases mechanical strength Increases water-repellency Droplet effect	Manually		32% in weight to be dosed with Sigilfuga FS	
	Storage Shelf life of 24 months in the original packages and in a dry place (temperature between +10°C and +30°C)		20% in weight to be dosed with Sigilfuga FL	
Code	Product	Color	Packages	Pallet
302201	Sigilflex	White latex	1 kg x 10 pcs	240 kg
302105	Sigilflex	White latex	5 kg	450 kg
302010	Sigilflex	White latex	10 kg	600 kg

Warning:

- not use in the preparation of stuccoes, to disperse materials with porous surfaces such as terracotta or polished porcelain. In any case, check their cleanability before application or treat them with **Idrosilk**;

- preparation of more mixtures dose **Sigilflex** always in the same measure, to avoid color variations of the sealant;

- not use **Sigilflex** for antacid leaks that must resist to chemical attack.

Technical and application specifications

Hazard classification as per Directive 99/45/CE:	none
Mixing water:	Sigilfuga FS (28-30% of weight) Sigilfuga FL (18-20% of weight)
Specific weight of mixture Sigilfuga FL/FS+Sigilflex:	2.0 g/cm³
Mixture pH:	over 12
Pot life:	about 2 hours
Application temperature:	from +5°C to +35°C
Walk over-time:	24 hours
Ready for use:	8/10 days (for pool also)

FINAL PERFORMANCE SPECIFICATIONS EN 13888 (N/mm²)

Pot with:	Sigilfuga FS	Sigilfuga FL
Flexural strength after 28 days (EN 12808-3):	9.0 N/mm²	10.0 N/mm²
Compressive strength after 28 days (EN 12808-3):	31.0 N/mm²	32.0 N/mm²
Resistance to compression after freeze-thaw cycle (EN 12808-3):	35.0 N/mm²	40.0 N/mm²
Resistance to bending after freeze-thaw cycle (EN 12808-3):	3,4 N/mm²	4.2 N/mm²
Water absorption after 30 min (g) (EN 12808-5):	1.0 g	0.5 g
Water absorption after 240 min (g) (EN 12808-5):	2.0 g	1.0 g
Abrasion resistance (EN 12808-2):	220 mm³	240 mm³
Shrinkage (mm/m) (EN 12808-4):	2.0 mm/m	1.4 mm/m
Resistance to acids:	discrete	
Resist. to damp, solvents, alkalis, oils, ageing:	good	
Temperature resistance:	da -30°C a +90°C	
Harmonised customs code:	39039000	

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

