

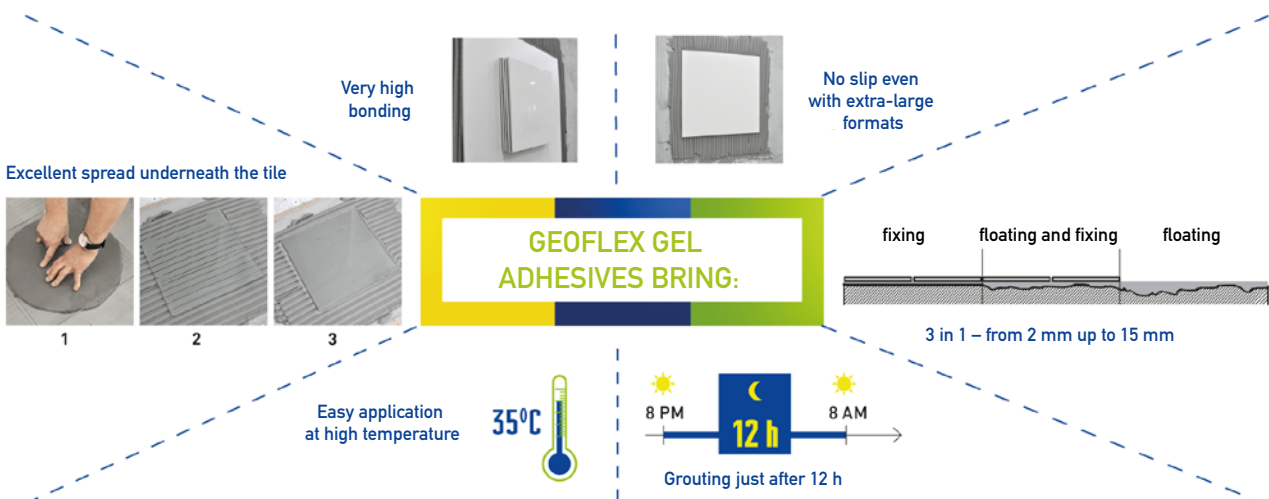
WE ARE GEL TECHNOLOGY

The line of gel adhesives ATLAS Geoflex (ATLAS Geoflex, ATLAS Ultra Geoflex, ATLAS Geoflex White) is a hit for almost two years. What is the power of gel technology? These are adhesives with extraordinary properties and almost unlimited application. Where? This is the answer.

ADVANTAGES OF USING GEL TECHNOLOGY

Adhesives of Geoflex family uses innovative technology of siliceous gel. Its main advantage is ability for accumulation of great amount of water in comparison to the traditional adhesives. Owing to this occurrence it is guaranteed that hydration process is fully finished and all performance parameters of adhesive mortars are obtained, even during application in particularly severe conditions of mortar preparation, depending on needs or own preferences of the Contractors.

The accumulation of water allows for wider possible use of the adhesives, limits danger connected with permeability of substrate or ceramic cladding or risk of application in increased temperatures, moreover has an positive impact on working properties of the adhesive.



GEOFLEX GEL ADHESIVES BRING:

1 EASY MIXING AND APPLICATION

Gel adhesives easily mix with water, even after short stirring. The mass consistency seems lightweight and fluffy. Products brilliantly hold onto tools, it does not slip from vertical surfaces. They are stable and do not subside even at thick

coats or with heavy and large-sized tiles. They spread superbly, the mortar "ribbon" does not break, the application is easy, regardless of the type of installation.



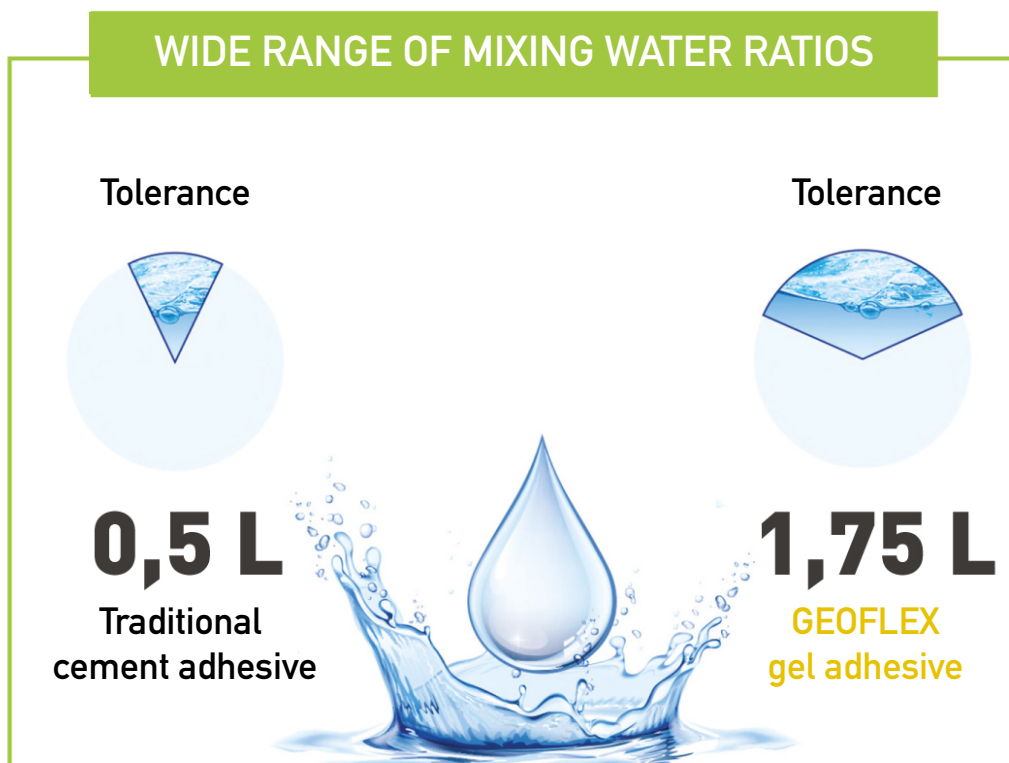
2 CONSISTENCY ADJUSTED TO NEEDS

Geoflex adhesives are characterized by wide range of ratio of water added to a mortar preparation. This range is almost three times greater and unrepeatable in case of traditional mortars.

It allows to adjust the consistency to individual preferences. In case of less experienced contractors it also eliminates the risk of overwatering which in case of traditional solutions may impair an adhesive workability and strength. The biggest advantage over traditional cement products lays in the possibility to obtain all-purpose adhesives of regulated consistency. When mixing an adhesive with minimum amount of water, we get the product with limited slip,

which allows to fix the cladding from the top towards the bottom without additional support.

Greater amount of mix water changes the consistency into more spreadable one, which is perfectly adjusted to installation of cladding on horizontal surfaces. The adhesive perfectly fills gaps underneath the tiles which guarantees long lasting use of cladding on balconies, terraces or swimming pools. The gaps filling even underneath extra large tiles is very easy and does not require great strength of installers. Wide range of mix water does not change product strength parameters, open time, durability or time of drying and period of time allowing for foot traffic.



3 POSSIBILITY OF USE AT HIGH TEMPERATURE

Atmospheric conditions, particularly temperature during application and several hours after, may significantly influence the process of binding of products based on cement binders. Setting of adhesive mortars consists of multiple subsequent processes of hydrolysis and hydration, leading to permanent binding of water in the structure of silicates which are compounds of cement. An optimum amount of water allowing for completion of process of cement hydration is pretty large - 0,46 kg of water for 1 kg of cement (according to A. M. Neville). High temperature during application and drying of the product accelerates the pace of water evaporation, thus its total amount may be insufficient amount of water to conclude complete process of hydration.

It may result in reaching parameters much below declared values and further operational problems with cladding. Technology used in Geoflex adhesives allows for initial binding of greater amount of water. It is accumulated in the structure of siliceous gel and evaporation is significantly reduced. It guarantees the amount of water essential for complete process of hydration. **This ability allows for safe application of product on heated surfaces of terraces, balconies or loggias in temperature up to +35°C.**



4 BENEFICIAL OPEN TIME AND POT LIFE

Open time is maximum period of time since application of an adhesive after which tiles may be placed in the coat of an adhesive and expected bonding is reached. This feature allows for application of adhesive on greater surfaces with subsequent positioning and levelling.

Accumulation of water given by the siliceous gel guarantees declared performance after open time even longer than 30 minutes. The process of top coat setting occurs later; even after longer period of time an adhesive stays wet and allows for easy cladding fixing.

The results of tests of bonding for open time of 30 minutes, carried out after 24 hours confirms that gel adhesives holds three times greater adhesion than traditional cement mortars of the same C2TE class. The ability of accumulation of greater amounts of water than traditional cement adhesives improves also the pot life. In case of Geoflex adhesives, the pot life is 4 hours after moment of stirring the mortar. Adjustability time is also prolonged, the position of tile can be corrected even after 30 minutes.



5 VERSATILITY OF USE

Geoflex are general use adhesives which can be chosen for fixing tiles of any type and format on substrates of any kind. They perfectly work on concrete, brick, hollow blocks, plasterboards or OSB boards. They bring a perfect solution for substrates with heating systems or those particularly difficult such as terrazzo or existing ceramic cladding.

An important asset is also given by possibility of surface levelling. The range of thickness from 2 up to 15 mm allows for both floating and fixing. Regardless of the type or format of tiles, the substrate, the type of use and the coat thickness, foot traffic and grouting is possible 12 hours after tiling.

