

FLEXYSTONE®

Professional jointing resin



Resistant



Flexible



Draining



STONEXPERT
resin for joint

FLEXY LINE

Original resin formula for joints

The FLEXY system can be used on all types of stone and all formats:
from classic granite paving stones to concrete slabs.
It offers countless aesthetic and practical solutions.

Flexibility	The FLEXY series has elastic properties. This allows it to resist thermal expansion, so no expansion joints or breaks in the flooring are required.
Resistance	La gamme FLEXY résiste au gel et au dégel, aux sels et aux acides, aux charges lourdes. La gamme FLEXY absorbe les sons.
Permeability	The FLEXY line is available in draining and non-draining versions.
Simplicity and aesthetic	FLEXY series products are easy to use thanks to ready-to-use one-component solutions. A choice of colors is also available, allowing the covering to stand out attractively.
Quality and innovation	We select only high-quality raw materials, perfect our formulations, introduce new technologies, carry out extensive testing and monitor production.
Open way in 24 hours	Thanks to its rapid progressive hardening in 8 hours, the FLEXY series allows reopening to traffic in 24 hours compared to 15 days for a sealed concrete floor.
Service	Choosing the FLEXY system means benefiting from our know-how, made available to all our customers to enable the installer to obtain the best result. Our assistance is in fact included not only in the preliminary phases, but also after the completion of the work.
Patented	Formula designed and patented by Mr. Francesco Avi, today technical director of Stone Expert Srl



FLEXY LINE

Specific jointing resins
for different types of flooring

FLEXYSTONE®

For natural stone floors.

Flexystone® is a liquid polyurethane resin formulation developed for sealing joints in stone floors.

Flexystone® offers numerous advantages, both aesthetic and functional: it is designed for heavy traffic, is salt-resistant, can be draining or non-draining, and offers a wide choice of colours.

FLEXYCRYSTAL

For light-coloured floors.

UV-resistant transparent version.

Flexycrystal is a transparent liquid formulation based on polyurethane resin. It does not yellow and is UV-resistant.

It is used to seal light-coloured floors while maintaining the original colour of the joint with a wet look.

FLEXYREPAIR

For renovating existing floors.

Flexyrepair is based on Flexystone® technology, but has been developed and optimised for use on existing floors.

With Flexyrepair, it is possible to work with small joint thicknesses. Application is simple and functional.

FLEXYBETON

For concrete paving.

Concrete pavers and slabs: a solution for roadways.

Flexybeton is based on Flexystone® technology, but has been developed and optimised to create a strong, flexible joint capable of withstanding the passage of vehicles over concrete paving such as conventional concrete slabs.

COMPARISON TABLE

RESISTANCE	FLEXY RANGE	CEMENT	POLYMER SAND	SAND
TRAFFIC	✓	✓	NO	NO
DILATATION	✓	NO	NO	✓
FREEZING AND THAWING	✓	LOW	LOW	NO
SALTS AND ACIDS	✓	NO	NO	✓
EASE OF USE	✓	NO	✓	✓

* The table provides a simplified summary of the data gathered from laboratory analyses and empirical tests carried out on dozens of sites in Italy and abroad.

OPTIMAL RESIN CASTING

After filling the joints with the same gravel as was used for the laying (generally 4/8 mm volcanic gravel), it is compacted using a vibrating plate.



At this stage, Flexystone® resin is poured joint by joint, preferably in a single pass. A double pass would only lead to excessive consumption of the product without improving its fixing power.



Once compacted, the remaining part of the joint, approximately 2 cm, is saturated with 2/4 mm gravel, preferably volcanic.

It is essential that the gravel is completely dry and laid in the joints just before the resin is applied.



Once laid, the resin flows between the cracks in the gravel to a depth of around 8/10 cm.

After approximately 8 hours, the product has hardened and after 24 hours the paving can be walked on.

INDICATIVE CONSUMPTION:

- PAVÉ 6/8 cm : 0,9 - 1 Kg/m²
- PAVÉ 8/10 cm : 1 - 1,3 Kg/m²
- STONE : 1,5 - 2 Kg/m²
- TILES 30x60 cm : 0,30 Kg/m²

DRAINING SYSTEM

With resins from the **FLEXY** and **CHROMA** lines, it's possible to create a draining, durable floor.

Today, in many European countries, regulations require the installation of draining floor coverings to limit the risk of flooding and encourage the infiltration of surface water into groundwater, in a growing concern to protect the environment.



NON-DRAINING SYSTEM

If you want to create a non-draining floor, you can use **Sandfix-14** which, by creating a surface layer over the joints, isolates them from water.

To begin with, the joints should be saturated with gravel and resin from the Flexy range, to create strong, elastic joints.

When the joints are dry, a layer of Sandfix-14 polymer powder is spread over the entire surface of the floor.

The powder is then moistened with Acquafix to obtain a solution that is resistant to sweeping and heavy traffic.



FLEXY LINE

	FLEXYSTONE® Resin for joints in natural stone floors	Draining and non-draining Exposure to UV rays gives an amber effect to the surface layer, then encourages its elimination after a few months. The most widely used resin!	1 kg bottle 25 kg drum 500/600 kg pallet 1.100 kg tank	Usage 
	FLEXYCRYSTAL Resin for joints - natural stone floors or concrete paving	Draining and non-draining 100% transparent Anti-UV (sun-resistant)	1 kg bottle 25 kg drum 500/600 kg pallet 1.100 kg tank	Usage 
	FLEXYREPAIR Resin for repairing joints in existing floors	Draining and non-draining Exposure to UV rays gives an amber effect to the surface layer and encourages its natural elimination after a few months	1 kg bottle 25 kg drum 500/600 kg pallet 1.100 kg tank	Usage 
	FLEXYBETON Resin for joints - concrete paving or slabs	Draining and non-draining Exposure to UV rays gives an amber effect to the surface layer and encourages its natural elimination after a few months	1 kg bottle 25 kg drum 500/600 kg pallet 1.100 kg tank	Usage 

CHROMA LINE

	CHROMA 1K Resin mixed with natural gravel to create attractive, colourful floors Single-component	Draining Amber effect Low resistance	4 kg can 5 kg or 10 kg bucket 25 kg drum 500/600 kg pallet 1,100 kg tank	Usage 
	CHROMA CRYSTAL Transparent, UV-resistant resin for light-coloured gravel floors Single-component	Draining 100% transparent Medium resistance	Bidon 4 kg Seau 5 kg ou 10 kg Tambour 25 kg Palette 500/600 kg	Usage 
	CHROMAPOXY High-strength two-component professional resin for gravel floors Bi-component	Draining 100% transparent High resistance	2 kg + 1 kg KIT 5 kg + 2.5 kg Drum/Bottle 25 kg Pallet 500/600 kgKIT	Usage 

PREMIXED LINE

	COLORFILLER Ready-to-use premixed powder, available in various colours, designed and formulated for saturating porous asphalt floors, CHROMASTONE or FLEXYSTONE®.	Powder. Standard colours: white, light grey, dark grey, brown	Bucket 10/25 kg Pallet 500/600 kg Bigbag 1 t
	SANDFIX-14 Ready-to-use dry premix designed and formulated for finishing FLEXYSTONE® and CHROMASTONE® floor coverings.	Powder. Standard colours: white, light grey, dark grey, brown 95% waterproof.	Bucket 10/25 kg Pallet 500/600 kg Bigbag 1 t
	XSAND Ready-to-use premix, also known as "polymeric sand" or "polymer sand", for grouting cement floors.	Sand. Standard colours: white, light grey, dark grey, brown. Draining or non-draining.	Bucket 25 kg Bigbag 1 t

FIX LINE

NOSOUND	New-generation polymer specially designed for manholes: creates a perfect seal, reducing traffic noise. <i>Opens immediately to traffic.</i>	290 ml cartridge (pack of 20) Unipack: 600 ml cartridge
SILSTONE	Versatile new generation polymer : - vertical or horizontal bonding of building materials, including natural stone, - creating expansion joints in exterior floors and vertical surfaces.	290 ml cartridge (pack of 20) Unipack: 600 ml cartridge

EXTRA

FLEXYTANK	 Flexy range distribution tank	
KIT Gun, hose, tap	Spare parts for Flexytank	
All types of gravel	 Selected dry gravel for Flexysystem and Chromasystem	Bags 25 kg Bigbags of 1.5 t
Advice and technical assistance	Technical assistance at the time of purchase, on site during applying, and after applying.	

INNOVATION, QUALITY AND SERVICE

Stone Expert floor finishing products are synonymous with internationally recognised quality. We pay close attention to customer satisfaction, offering advice tailored to every situation, from supply to after-sales service.

Thanks to this privileged relationship with our customers, we invest in research, so that every new situation encountered on building sites around the world finds its solution.

Stone Expert is not just a manufacturer and supplier of floor resins.

and supplier of flooring resins, it's also a trusted partner partner that organises theoretical and practical courses run by the inventor himself.

*Mr Francesco Avi, inventor and creator
of many products in the Stone Expert catalogue*



Francesco Avi, a true master of stone!

Francesco Avi was trained in the valleys of Trentino, a region traditionally associated with porphyry. The vast experience he has accumulated over the years in Italy and abroad, combined with unshakeable tenacity and extraordinary inventiveness, has made Francesco Avi one of the leading experts in exterior paving.

Together with his son **Loris Avi**, administrator and production manager, who brings stability and professionalism, they are the keystone of a company that continues to grow in success.

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