

Professional resins for joints



Resistant



Flexible



Draining



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 AVI RESINS



FLEXY LINE

Resins for different types of flooring

FLEXYSTONE®

- Single-component polyurethane resin for grouting natural stone floors.
- **Amber colour.**
- **Ideal for dark gravel.**
- Dries in 1 day.
- Not UV resistant. This allows stains to disappear after a few months of exposure to the sun.

FLEXYCRYSTAL

- Single-component polyurethane resin for grouting natural stone floors.
- **Transparent colour.**
- **Ideal for light-coloured gravel.**
- Dries in 2 days.
- UV resistant.

FLEXYREPAIR

- Single-component polyurethane resin for grouting existing floors.
- **Amber colour.**
- **Ideal for repairing natural stone floors.**
- Not UV resistant. This allows stains to disappear after a few months of exposure to the sun.

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.



FLEXYNEXT

- Single-component resin for grouting natural stone floors.
- **Transparent colour.**
- **Ideal for light-coloured gravel.**
- **Ideal in dry or wet gravel conditions**
- Dries in 1 days.
- UV resistant.

FLEXY LINE COMPARISON TABLE

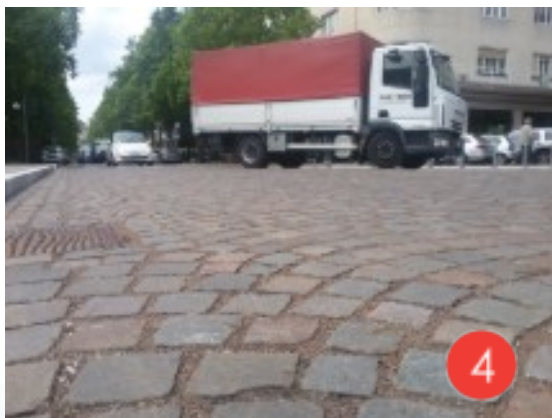
FLEXYLINE	Transparency	Elasticity	UV resistance	Traffic resistance	Resistance to salts and acids	Application on wet gravel
FLEXYSTONE®	✓✓..	✓✓✓✓	✓...	✓✓✓✓	✓✓✓✓	
FLEXYCRYSTAL	✓✓✓✓	✓✓✓.	✓✓✓✓	✓✓✓✓	✓✓✓✓	
FLEXYREPAIR	✓✓..	✓✓✓✓	✓...	✓✓✓✓	✓✓✓✓	
FLEXYBETON	✓✓..	✓✓✓✓	✓...	✓✓✓✓	✓✓✓✓	
FLEXYNEXT Nouveau produit	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓

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 12/24 hours, the product has hardened and after 24/48 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® Single-component polyurethane resin with an amber colour	- For draining joints - Amber colour - Ideal with dry dark gravel - Surface dry after 24 hours	1 kg bottle 25 kg drum 1.100 kg tank	Usage 
	FLEXYCRYSTAL Single-component polyurethane resin, transparent colour	- For draining joints - Transparent colour - All types of dry gravel - Surface dry after 24 hours	1 kg bottle 25 kg drum 1.100 kg tank	Usage 
	FLEXYREPAIR Single-component polyurethane resin with an amber colour	- For draining joints - Amber colour - Ideal for repairs - Surface dry after 24 hours	1 kg bottle 25 kg drum 1.100 kg tank	Usage 
	FLEXYBETON Single-component polyurethane resin with an amber colour	- For draining joints - Amber colour - Ideal for repairs - Surface dry after 24 hours	1 kg bottle 25 kg drum 1.100 kg tank	Usage 
	FLEXYNEXT Single-component resin, transparent colour	- For draining joints - Transparent colour All types of dry or wet gravel - Surface dry after 12 hours	1 kg bottle 25 kg drum 1.100 kg tank	Usage 

CHROMA LINE

	CHROMA CRYSTAL Transparent single-component resin for draining floors. Mixture of gravel and resin.	- Draining - Transparent - Only with dry gravel - Medium resistance	- Jar 4 kg - Bucket 5 kg ou 10 kg - Drum 25 kg	Usage 
	CHROMA NEXT Transparent single-component resin for draining floors. Mixture of gravel and resin.	- Draining - Transparent - Even with wet gravel	- Jar 4 kg - Bucket 5 kg ou 10 kg - Drum 25 kg	Usage 
	CHROMA NEXT vertical Transparent single-component resin for vertical machining. Mixture of gravel and resin.	- Draining - Transparent - Even with wet gravel	- Jar 4 kg - Bucket 5 kg ou 10 kg - Tambour 25 kg	Usage 

PREMIXED LINE



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

Bigbag 1 ton

AQUAFIX

NEW



AQUAFIX G1

Water-based resin for fixing decorative gravel for surface spraying or mixed with gravel.

Jar 1 kg

Jar 5 kg

Tank 25 kg

NEW



AQUAFIX S20

Water-based resin to be sprayed onto flooring with Sandfix-14 to increase its resistance

Jar 1 kg

Jar 5 kg

Tank 25 kg

FIX LINE



NOSOUND

New-generation polymer specially designed for manholes: creates a perfect seal, reducing traffic noise.
Opens immediately to traffic.

290 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



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.

AVI RESINS



Pedestrian circulation



Occasional traffic (driveways and private yards)



Intense traffic



Heavy and intense traffic



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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