








WATER DRAIN System

DRAIN RESIN AB GRANULATO 540

SCREEDS WITH HIGH DRAINING AND SURFACING SALT PREVENTION
CAPACITY TO BE ADDED TO SACKS OF QUARTZ AGGREGATES

CARATTERISTICHE	IMPATTO AMBIENTALE	MODALITÀ D'IMPIEGO	AVVERTENZE
 THREE-COMPONENT	 ECO GREEN	 RECYCLABLE	 STORAGE: IN A DRY PLACE
		 MIX MECHANICALLY	

PROBLEM

DRAIN WATER QUICKLY OFF SURFACES



Quick draining of water to prevent icing, slipperiness, flooding, etc., and rain water collection.

SOLUTION

WATER DRAIN System is a draining screed composed of **DRAIN RESIN AB** bi-component synthetic resins and a special grain size quartz aggregate, **GRANULATO 540**.

After the mix of 3 components hardens, it forms a solid screed, suited to vehicle traffic applications, with outstanding draining capacity. Thanks to its special formulation, **WATER DRAIN System** has excellent mechanical strength and does not shrink or retract, so that it is free of the cracking characteristic of cement based products.

The special binder completely eliminates the formation of bloom, which can block drainpipes as well as causing unattractive stains.

The special mix design also ensures a modern finish perfectly suited to contemporary architectural settings.



APPLICATION FIELDS

WATER DRAIN System is used for sidewalks, avenues, parks, cycle paths, car parks, city squares and secondary vehicle traffic areas, where fast drainage of water, especially in downpours, is a priority.

ADVANTAGES

- Outstanding drainage capacity.
- No puddle formation.
- No bloom formation.
- Accelerates thawing of snow.
- Increased safety.
- Reduced heat absorption.
- Collects rainwater for recycling.
- No hygrometric retraction.
- Excellent attractive finish.

METHOD OF USE

• SURFACE PREPARATION

The substrate must be dense, flat and free of dust and oil, which compromise the adhesion of **WATER DRAIN System**. The substrate must be designed with a slope to enable the water to run off.

Depending on the project and solution, **WATER DRAIN System** may also be applied to geotextile mattresses, for instance when installing a substrate for synthetic grass, or compacted gravel and soil, etc..

• MIX PREPARATION

Pour component **A** of **DRAIN RESIN** (4.5 kg) into the concrete mixer, professional mixer or mixing container, add component **B** (4.5 kg) and mix for 2 minutes. Now add the aggregate in bags, **GRANULATO 540**, and mix for a further 3 minutes.

GRANULATO 540 aggregate can be added in 2 proportions:

- 4 25-kg Sacks: maximises the draining capacity of the screed
- 3 25-kg Sacks: maximises the compression strength of the screed

• APPLICATION

Pour the mixed **WATER DRAIN System** onto the substrate and level it like a normal screed of semi-plastic consistency for small surfaces, or use a vibrating road paver and roller for large surfaces.

The minimum application thickness is 4 cm. We recommend a thickness of 5 to 10 cm.

• CONSUMPTION

Consumption is 17 kg/m²×cm thickness.

• WARNINGS

- Application temperature from +5°C to +35°C.
- Do not add foreign matter, such as cement, plaster, lime, etc..
- Store the original closed packaging in a dry place.
- The surface should only be used for low vehicle traffic applications.

TECHNICAL CHARACTERISTICS

	Standard	WATER DRAIN System		
		DRAIN RESIN AB COMPONENT A	DRAIN RESIN AB COMPONENT B	GRANULATO 540 COMPONENT C
Aspect		Liquid	Liquid	Gravel
Mixing ratio		4.5	4.5	75 / 100
Density		1.05 kg/L	1.10 kg/L	–
Particle size		–	–	1.4 ÷ 4.0 mm
Storage in original packaging in a dry place		12 months	12 months	–
Colour		mixed beige/grey gravel		
Density		1.70 ± 0.10 kg/L		
Mix properties and workability	Standard			
Flow table test (15 strikes)		10%		
Application temperature		+5°C ÷ +35°C		
Minimum thickness	UNI 11493	4 cm		
Waiting time - before foot traffic use (*)		24 h at 20°C.		
Waiting time - before vehicle traffic use (*)		3 days at 20°C.		
Application temperature		+5°C ÷ +35°C		
Performance characteristics	Standard	Product performance		
		WATER DRAIN System (3 bags of GRANULATO 540)	WATER DRAIN System (4 bags of GRANULATO 540)	
Compression strength	EN 12190	≥ 15 N/mm ²	≥ 8 N/mm ²	
Flex resistance	EN 12190	≥ 7.0 N/mm ²	≥ 3.5 N/mm ²	
Draining capacity	EN 12697-40	35 L/m ² /sec. - HC 0.08	70 L/m ² /sec. - HC 0.20	
Thermal resistance - Working temperature		-30°C ÷ +90°C		

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. These parameters may vary based on the specific conditions of the worksite: temperature, humidity, ventilation, porosity of the substrate.

(*) The stated times may be longer or shorter as the temperature decreases or increases.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

PACKAGING

WATER DRAIN System

- **DRAIN RESIN AB** **9.0-kg**
 - Component A: 4.5-kg Can
 - Component B: 4.5-kg Can
- **GRANULATO 540: 3 25-kg Sacks** **75-kg**
- **GRANULATO 540: 4 25-kg Sacks** **100-kg**

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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