

## Avila Stone Gravels Terrazzo



### Description

Solvent-free system based on Special Epoxy solvent free resin, for decorative application over concrete surfaces 6-12 mm thickness. AVILA STONE GRAVELS TERRAZZO is ready formulated for use on site. It is distinguished by a very good workability. The system exhibits good mechanical strength and is resistant against a variety of commonly used chemicals. By using top layer of polyaspartic clear system, the system will resist U.V.

### Recommended system/ m2 for gravel sample

- ✔ Avila stone wet primer 0.35 – 0.4 kg.
- ✔ Mix of Avila Stone 10162 black “1.7 kg + 17 kg gravels 1.0 – 4.0 mm.
- ✔ Avila Stone clear top 10092-1 1.6 kg.

### Recommended system/ m2 for Natural aggregate sample

- ✔ Avila Stone wet primer 0.35 – 0.4 kg.
- ✔ Mix of Avila Stone 192-1 “2 kg + 16 kg natural aggregates 1.0 – 9.0 mm.
- ✔ Avila Stone clear top 10092-1 0.4 kg.
- ✔ Top layer of polyaspartic clear 0.4 kg “for U.V resistance.

### Density

1.9 g/cm<sup>3</sup> “for system with filler”

### Applications

AVILA STONE GRAVELS TERRAZZO in combination with gravel aggregates’ mix are applied to the required thickness to provide attractive terrazzo flooring. The “Terrazzo” system is recommended for use in Hotels, Hospitals, Food processing areas, Laboratories, Pharmaceutical plants, shopping malls, Cafeterias, Airports and Chemical Processing areas.

## Advantages

- ✔ AVILA STONE GRAVELS TERRAZZO system is ready formulated for use on site. It is distinguished by a very good workability at ambient temperatures.
- ✔ This system “Terrazzo” provides long durability and does not support bacterial growth.
- ✔ The system is available in natural aggregates different colors.
- ✔ The “Terrazzo” system provides superior resistance to wear.
- ✔ Exceptional cohesion to the cement base substrate.
- ✔ AVILA STONE GRAVELS TERRAZZO Impermeability and good resistance to spilling of liquids, like oil and detergents.
- ✔ Color capabilities allow for design variations.
- ✔ Excellent mechanical resistance to traction, bending and compression

Key Data	
AVILA STONE GRAVELS TERRAZZO	A+B+C
Density at 25 °C	~1.9- 2.0 g/cm <sup>3</sup>
Mechanical properties - At 20°C & at 50% RH	
Tensile strength N/mm <sup>2</sup> (BS6319)	25
Elongation at Break ASTM D-638	5.6%
Compressive strength N/mm <sup>2</sup> (BS6319)	60+ 5
Flexural strength N/mm <sup>2</sup> (BS6319)	18 +2
Adhesion to concrete N/mm <sup>2</sup>	4-5
Abrasion resistance ASTM D-4060 CS-17/1000 rot/ 1000 g	39 mg
Water absorption ASTM C-413, 2hr boiling	0.02%
Permeability to water vapor ASTM E-96	0.23 g/hr/m <sup>2</sup>
<b>Chemical Resistance</b> Fully cured for 7 days at 20°C Excellent resistance. No deleterious action after long term contact	Excellent resistance to tap water, seawater, detergents, brine, crude oil, and diluted

\*All data is subject to change without prior notice by the manufacturer.

## Substrate requirements

- ✔ AVILA STONE GRAVELS TERRAZZO to be mixed by a mechanical mixer.
- ✔ Add gradually the corresponding filler type in the indicated amount.
- ✔ Mix for Approx. 3-5 min. to obtain a homogenous mix.





## Pot life

Use the fresh resin/hardener/filler mix within 30 minutes at 20oC

## Application method

- ✔ Prime the substrate with the low viscosity epoxy system AVILA STONE CLEAR 192-1.
- ✔ Mix resin, Hardener, and aggregates as explained above.
- ✔ Spread and trowel the epoxy “Terrazzo” system onto the wet primer.
- ✔ Leave the epoxy screed for initial curing.
- ✔ Grind the surface to reach the desired aspect.
- ✔ A layer of epoxy grout is applied, if needed, to fill the gaps within the Terrazzo layer.
- ✔ After drying, apply the clear top AVILA STONE CLEAR 192-1

## Curing time

- ✔ Dust-dry time 20oC/65% RH 14 hrs
- ✔ Full cure time 20oC/65% RH 7 days

## Maintenance and Cleaning

The “Terrazzo” system is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended.

## Cleaning of tools

Tools and equipment should be cleaned immediately after use, preferably with strong solvents.

## Storage

Keep can tightly closed until just before use.  
Do not store at temperatures below + 10oC.



## Handling / Safety

### Precautions

AVILA STONE GRAVELS TERRAZZO

### Caution

Keep uncured materials away from your mouth, from food and from drink.

Do not store food or beverages in empty cans even if they appear to have been cleaned.

When working with uncured resin or hardener, always:

- ✔ Protect your hands and forearms with barriers cream and/ or
- ✔ Wear polyethylene or rubber gloves.

Remove smears from your skin immediately using a special skin cleanser or warm water and mild soap. Never use solvents; they will only make epoxy penetrate deeper into your skin.

Avoid excessive inhalation of vapors given off by uncured materials.

**Read Material Safety Data Sheet Before Using.**

**For Industrial Use Only.**

The information in this publication, given in good faith, is based on the present state of our knowledge but all recommendations and suggestions are made without guarantee since the conditions of use are beyond our control. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.





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Chemistry Administration  
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وزارة التجارة والصناعة  
مصلحة الكيمياء  
تأسست عام ١٨٩٨ م

الإدارة المركزية لمعامل القاهرة  
الإدارة العامة لمعامل الكيماويات والمنتجات

المعمل المخصص/ الأعمار والمنتجات

تقرير الاختبار (Test Report)

بيانات العينة

كود/ شهادة الوارد للعينة : \_\_\_\_\_  
كود المعمل الرئيسي : ٢٠٢٠/١٦٥/٠٥  
عدد الصفحات/ العدد الكلي : (١/١)  
كود المعمل الفرعي : ٢٠٢٠/٢٩٧/٠١١  
مسمى العينة : عينة رقم (١) Avila stone gravels Terrazzo  
تاريخ ورود العينة : ٢٠٢٠/١٠/١٤  
وصف العينة : بلاطة خضراء اللون  
تاريخ إصدار التقرير : ٢٠٢٠/١٠/٢٢

مطالبات العميل

الفحص المطلوب : Abrasion resistance, Water absorption, The effect of weather conditions such as: Water-Sun-Dust.  
المواصفة القياسية : \_\_\_\_\_

بيانات العميل

اسم العميل : شركة / ليكس ستون كيم لأظمة الإيبوكسي والبولي يوريثان  
جهة العميل : ٠١٠٠٠٥٥٢٢٦٨

نتائج الاختبارات

النتيجة	الاختبار ( الوحدة )
١	( mm ) Abrasion resistance
٠,٠٥	( % ) Water absorption

لم يحدث تغيير في الشكل واللون بالعينة ( اجتازت )  
The effect of weather conditions such as: Water-Sun-Dust

- هذه النتيجة تخص العينة المقننة ولا تمثل إلا الكمية الممثلة منها العينة ، وتمثلها لأن كميات أخرى هي مسئولية جهة سحب العينة .
- يحتفظ بقايا العينات بعد إختبارها بمعامل المصلحة لمدة أقصاها شهر من تاريخ الإختبار.
- سريان العمل بتقرير الإختبار لمدة ثلاثة أشهر للعينات الغذائية ولمدة ستة شهور لباقي العينات من تاريخ إصدار التقرير. (نهاية التقرير)

المدير العام  
عبدالمعطي محمد  
١٠/٢٠٢٠

مدير الإدارة

رئيس الإدارة المركزية لمعامل القاهرة

أحمد محمد  
١٠/٢٠٢٠



المعنى  
وزارة التجارة والصناعة  
مصلحة الكيمياء  
رقم (٥٥١) - مرفقات (١)  
الإختبار حسب استراتيجية مصلحة الكيمياء فقط

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