



ASTRA®

The EMAC®'s Astra® material is an **extra resistant polymer** specially developed to obtain the best benefits in all kind of environments. Not only indoors but also in submerged or humid environments or outdoors. Thanks to the addition of biocides, which prevent from mold growing, it stands stable in humid and submerged environments. This material has a great impact resistance, improved in the formulation with several additives and a perfect balance of mineral reinforcer, which allows its use in floorings with guarantees.

The colors available are stable and durable, thanks to the studied dosage of maximum solidity dyes, preserving its appearance along the time. ASTRA® is the result of the constant innovation in EMAC®, always working to offer highly functional and decorative products.

Finishes

Finishes available in the entire ASTRA® range.



Cinnamon - 163



Cement - 164



Almond - 166



Black - 165



Ash - 170

Properties



- Finishes in warm tones according to trends
- Exclusive striated finish
- Multiple viable geometries
- Solutions for floors and walls
- Suitable indoors and outdoors
- Submersible even in salt water
- Bendable by application of controlled heat
- Recyclable

Technical features

Tensile strength	55-80 MN/m ²		
Flexural strength	50-100 MN/m ²		
Modulus of elasticity	3-4 GN/m ²		
Impact resistance	3-10 kJ/m ²		
Elongation to break	10-50%		
Thermal dilat. coeff.	6x10 ⁻⁵ / °C		
Moisture resistance	Excellent		
Tensile strength	Excellent		
Impact resistance	Very good		
Appearance and color	Stable		
Slip resistance*:	Class 3	UNE 41901:2017 EX	
	R12	DIN 51130	
Chemical resistance	Partial immersion. No visible effects in any of the samples.	UNE-EN-ISO 10545 Parte 13:2017	
 	- Ammonium chloride (household cleaner) - Sodium hypochlorite (swimming pools) - Hydrochloric acid low c. (3% v/v) - Citric acid low c. (100 g/l) - Potassium hydroxide low c. (30 g/l) - Hydrochloric acid high c. (18% v/v) - Lactic acid high c. (5% v/v) - Potassium hydroxide high c. (100 g/l)		
	Water absorption	0,2 %	UNE-EN-ISO 10545-3
	Frost resistance	No damage after 100 cycles	UNE-EN-ISO 10545-12
	Stain resistance	In all cases, the stain has been removed with running hot water for 5 minutes	UNE-EN-ISO 10545-14
	- Chromium oxide stain in light oil		
	- Alcoholic iodine solution stain		
- Olive oil stain			

*Profile tested: Novopeldaño ASTRA® Nori. This profile has been tested in combination with a specific flooring. The result is indicative and is not guaranteed with other flooring. The standards mentioned have been expressly developed for materials for floors and coverings. In no case, the profiles are subject to mandatory compliance, nor can they be used to certify facilities by themselves.

Cleaning and maintenance

ASTRA® is resistant to most of the common cleaners, although is recommended cleaning it preferably with neutral cleaners and water. The correct use of bleach does not affect it and it is resistant to the most common acids. If you need to clean the striated surface deeply, you can use a brush to clean.

It is not recommended using organic solvents such as ethyl acetate, acetone or toluene, so they could damage the surface appearance.

Technical information

You can find out more information about the technical features of EMAC®'s products by downloading its Technical File in www.emac.es.

If you have any query, please contact our Technical Department in tecnico@emac.es.

