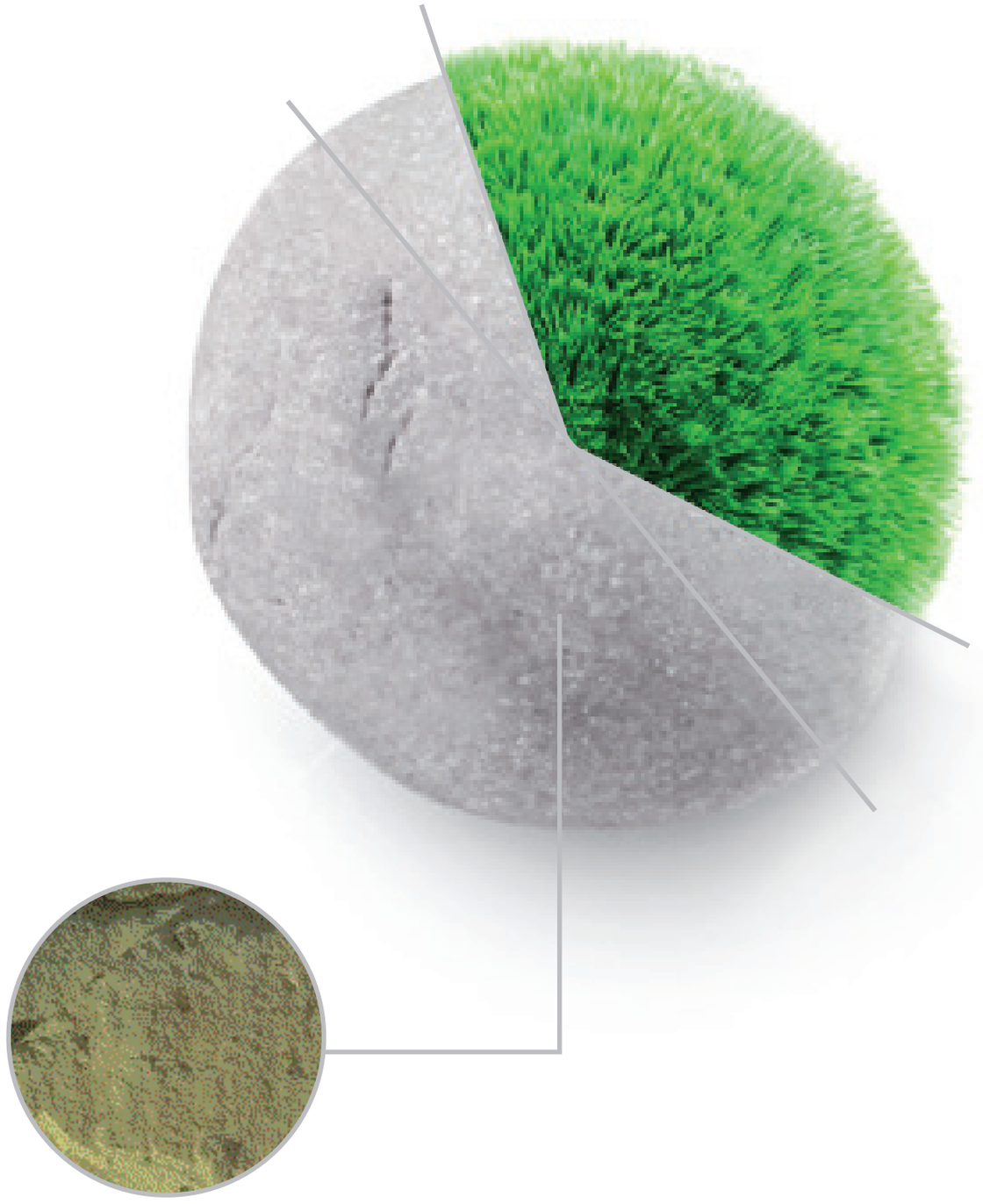
cristalplant® biobased

The continuous and careful research applied in the field of thermosetting raw materials, combined with the constant and steady desire to improve the products, led Nicos International to launch Cristalplant® Biobased, the first eco-friendly solid surface, derived from raw resins of vegetable origin, mixed with mineral natural aggregates of extreme purity.



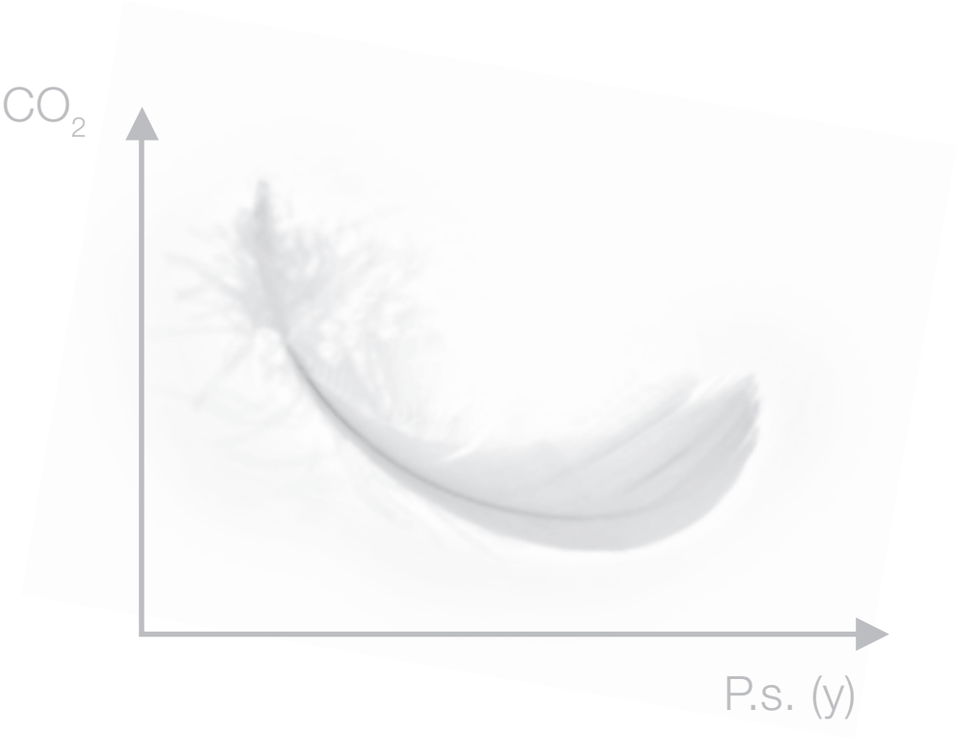
50%

of the composition is formed of aluminium hydrate retrieved from the processing of bauxite for the extraction of aluminum

30%

of the resin, previously of fossil origin, has been replaced by polyesters of vegetable origin derived from certified crops

can be recycled and reused at the end of life as inert



it is lighter; it has in fact reduced its specific weight of 30%, then produces less CO_2 than similar products currently on the market.

Facilitating handling and installation.

100% restorable even with scratched, stained or burned surface (environmental sustainability)

High resistance to fire

100% Made in Italy

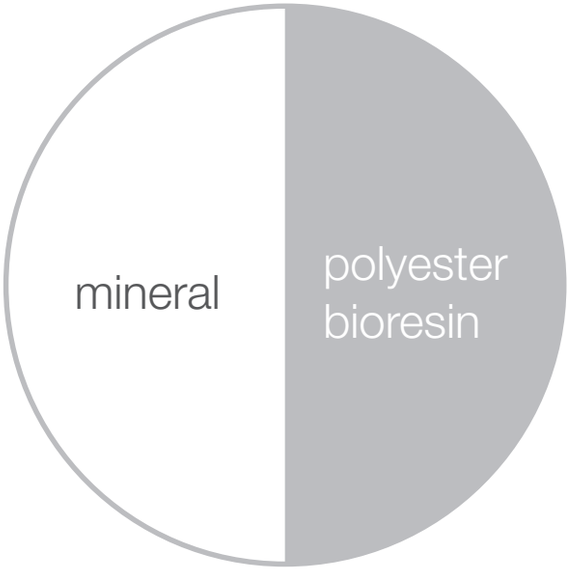
Repairable using the appropriate kit

CRISTALPLANT® is a bio-based material suitable to achieve “VOC” and “BIO-BASED” standard for “Leadership in Energy and Environmental Design” eco-sustainability certifications: by 2011 it shall be certified as for its resins, derived from vegetable starch and GMO-free corn; in this material such resins exceed even 12% when the minimum requisite is normally equal to 5%.

“VOC”

“BIOBASED”

The CRISTALPLANT® biobased is composed by 50% of minerals and 50% of mineral polyester bioresin



Below we show a list of some of the main features are examples.

Properties	Results	Units	Method
Pursuant to UNI EN 14516:2006. Baths for domestic use.	Achieved	---	UNI EN 14516:2006
Density	1.30	g/cm^3	Internal method
Flexural strength	41.9	MPa	EN ISO 173:2003
Flexural modulus	4100	MPa	EN ISO 173:2003
Tensile strength	26.4	MPa	EN ISO 597:1996
Tensile elongation	0.75	%	EN ISO 597:1996
Tensile modulus	4850	MPa	EN ISO 597:1996
Water absorption after 48 hours	<0.05	%	UNI EN 62:2001
Floor friction factor	The material meets required standards	---	B.C.R.A Method
Barcol hardness	40	° Barcol scale	ASTM D 2583-81
Dry heat resistance	Light and restorable opacity at 160°	---	EN 12722:1997
Wet heat resistance	Light and restorable opacity at 95°	---	EN 12721:1997
Xenon light resistance (1000 h)	5	grey colours scale	EN ISO 4892-2:2006
Resistance against cigarettes	3- ring easily repairable by cleaning	---	UNI FA 275:1989
Sustainability percentage (resi+inert)	70%		

www.biobased.it