Bringing nature back into play

Corkeen®
by Amorim


PATENTED
SOLUTION

Corkeen is the revolutionary surfacing system for playgrounds made from natural cork

Developed and produced by Amorim, the world leader of the cork industry, Corkeen combines unparalleled sustainability credentials, safety, and accessibility in a single solution.

Made from cork, a 100% natural material, Corkeen is the eco-friendly and sustainable surfacing solution trusted by architects for playground projects worldwide.

Cork, a gift from nature

Cork is the bark of the cork oak tree (Quercus suber L.), a plant tissue that covers the trunk and branches. It is a 100% natural and renewable raw material, valued for its unique properties and used across multiple industries and applications.

From a structural point of view, cork has a unique cellular composition. It is made up of millions of microscopic, hive-like cells filled with a gas similar to air and coated mainly with suberin and lignin. This structure gives cork its exceptional lightness, elasticity and compressibility. In fact, just one cubic centimetre of cork contains around 40 million cells, which is why cork is often referred to as “nature’s foam.”

Cork is harvested sustainably without cutting down the tree. The cork oak tree re-grows the outer bark layer and it can be stripped 15-18 times throughout its life.

9 years: The period of time between each cork oak harvesting.

25 years: The average time before the cork oak is harvested for the first time.

200 years: The average life expectancy of a cork oak.

The cork incorporated in 1 m² of Corkeen has a carbon footprint of -2.66 kg CO_2eq*

Cork, a positive contribution for climate regulation

The cork oak forest provides an essential contribution to the air that we breathe, by absorbing carbon dioxide. It is estimated that for every ton of cork produced in the forest, the cork oak forest sequesters up to 73 tons of CO_2.**

* Carbon footprint refers exclusively to the cork material incorporated per m². Results do not represent the total carbon footprint of the Corkeen system.
** Source: https://www.apcor.pt/wp-content/uploads/2015/10/Brochura_Ambiente__EN.pdf

Corkeen: a sustainable, safe, and durable playground surface for outdoor spaces

Great impact absorption

Tested according to EN 1177 / ASTM F1292 for critical fall height performance.

Thermal comfort in warm conditions

Cork's thermal conductivity (0.037–0.043 W/(m·K)) is up to 4× lower than typical rubber compounds (0.10–0.25 W/(m·K)), helping surfaces stay cooler under sun exposure.

Sustainable and eco-friendly

The cork incorporated in 1 m² of Corkeen stores −2.66 kg CO_2eq*.

High drainage performance

Tested according to EN 12616.

Slip-resistant

Tested according to BS 7188.

Fire-retardant

Tested according to BS 7188 requirements on ease of ignition.

Weather-resistant performance

Long-term monitoring of installed projects shows CFH values maintained after 5 years.

Suitable for aided mobility

Tested according to F1951.

No harmful substances

Cork is free from heavy metals, EDC, T-COV, formaldehyde and PAH.

Lightweight

Corkeen system granules typically have a density of 65–130 kg/m³, significantly lower than rubber granules (400–700 kg/m³), resulting in a lighter surface that is easier to transport and install.

Odorless

Naturally odour-free material, ensuring a clean and neutral environment during installation and throughout product lifetime.

* Carbon footprint refers exclusively to the cork material incorporated per m². Results do not represent the total carbon footprint of the Corkeen system.

Critical fall height performance of Corkeen projects

The Corkeen system is validated in real-life installations to ensure long-term playground safety. The Critical Fall Height results shown derive from a selection of projects across different geographies.

1 YEAR

Lake Highlands

Country: USA
Installed: 2024
Critical Fall Height: 1.80m

2025 audit – compliant

3 YEARS

Amalie Skramsvei

Country: Norway
Installed: 2022
Critical Fall Height: 1.60m

2022 audit – compliant
2025 audit – compliant

5 YEARS

Kirkebukten Park

Country: Norway
Installed: 2020
Critical Fall Height: 1.60m

2022 audit – compliant
2025 audit – compliant

ČESKÉ BUDĚJOVICE

Czech Republic

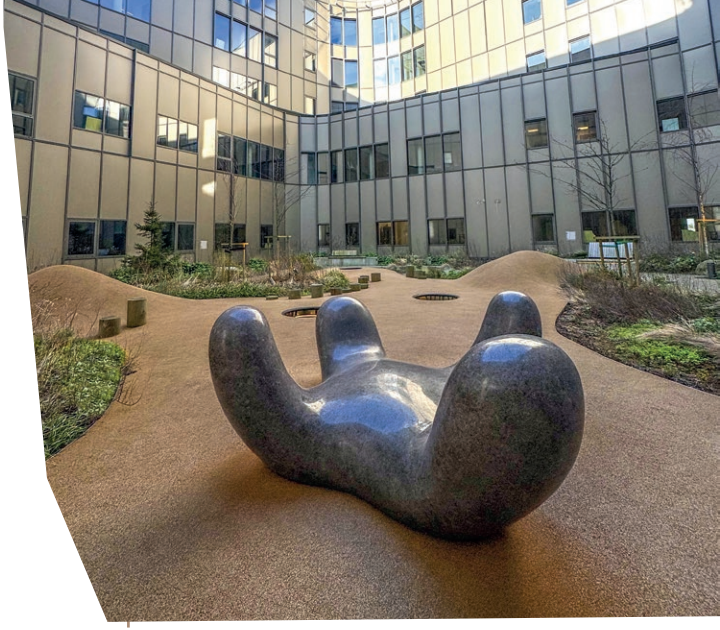
Client: České Budejovice City
Dimensions: 380 m²
Brand Master: Gartensta

VOLUNTARI
Romania

Client: Voluntari, Ilfov County
Dimensions: 75 m²
Brand Master: Indfloor

TYSVÆR
Norway

Client: Frakkagjerd Youth School
Dimensions: 844 m²
Brand Master: Sandvik Play



STAVANGER
Norway

Client: Stavanger University Hospital
Dimensions: 150 m²
Brand Master: Sandvik Play

SKANÖR
Sweden

Client: PEAB
Dimensions: 160 m²
Brand Master: Nordic Surface

TÄBY
Sweden

Client: Municipality of Täby
Dimensions: 400 m²
Brand Master: Nordic Surface

SANTIAGO
Chile

Client: Municipality of Vitacura
Dimensions: 150 m²
Brand Master: Urbanplay

WEST NUSA TENGGARA
Indonesia

Client: Buin Batu International School
Dimensions: 4000 m²
Brand Master: RetroMax

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CTP-895/001 | MAR 2026 | EN