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BECOLASTIC

Shock Pads

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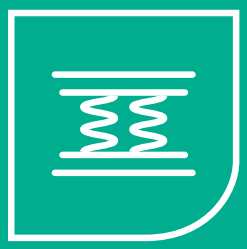
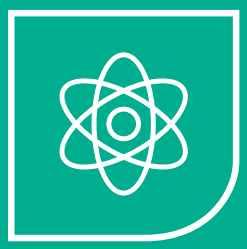
KEY ADVANTAGES
at a glance



→ Excellent long-term elasticity



→ Excellent chemical and microbiological resistance

→ Simple and convenient installation

→ A complete system, environmentally compatible and with a long service life

BECOLASTIC
Shock Pads

When constructing football pitches with synthetic turf, users and designers have a wide range of concepts and types of synthetic turf to choose from. In creating a durable overall system with properties as similar as possible to those of natural turf, the use of a suitable shock pads is of vital importance. The perfect combination of synthetic turf, infill material and shock pads is what makes all the difference when playing and for ensuring a long service life.

The BECOLASTIC Shock Pad provides sports constructors, design engineers and clubs with a sound shock pad that has been tried and tested in synthetic turf systems over several decades. Thanks to consistent and focused further development and modification, the latest BECOLASTIC generation performs even better in terms of water drainage and ease of installation.

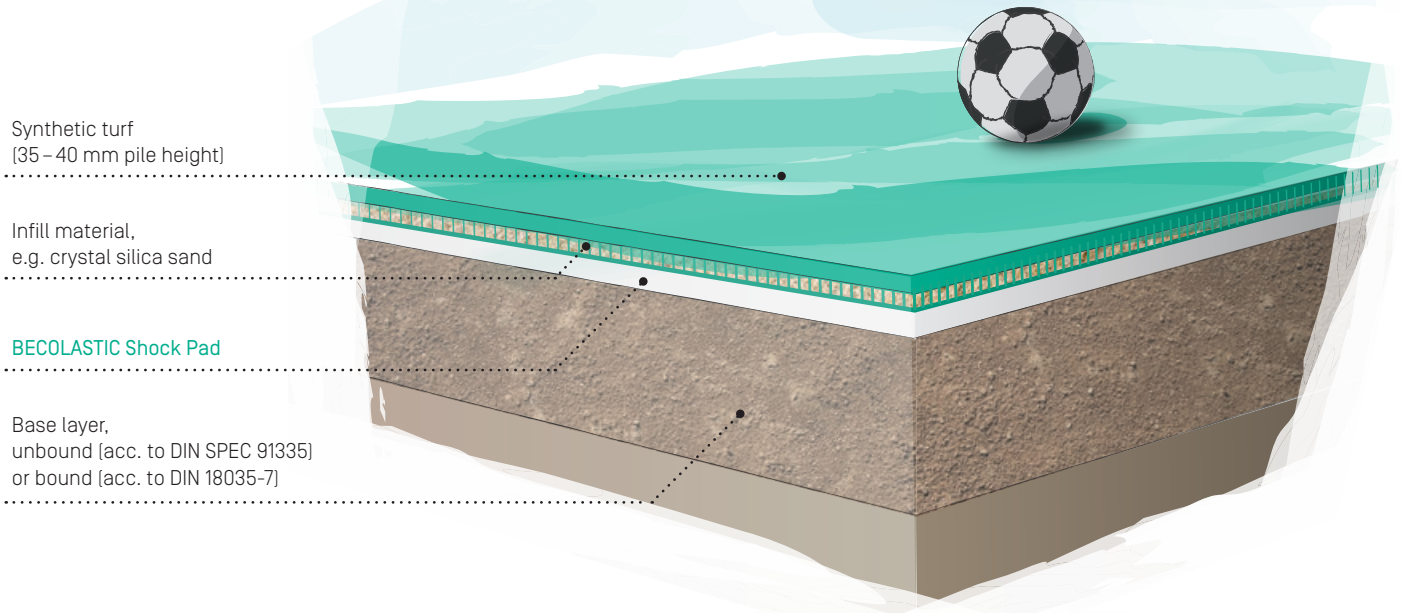
PRODUCT DETAILS
and properties

BECOLASTIC is a prefabricated shock pad made of 100% closed-cell polyethylene foam. It has a proven record of long-term elasticity over a period of more than 30 years, with practically no change in its shock absorption values in synthetic turf systems.

Durable and environmentally compatible system
The excellent chemical and microbiological resistance of the polyethylene base material prevents environmental conditions, such as pollutants and micro-organisms, from causing reactive changes in the material structure that could permanently alter the product.

The closed cell-polyethylene foam also shows a clear and ecological advantage and performance. Since there is no undesirable leaching of pollutants from the BECOLASTIC Shock Pad. It can also be used for synthetic turf playing fields located in waterbody aeras where drinking water can be collected.

SYSTEM COMPONENTS **WITHOUT SYNTHETIC GRANULATE**



Cross-shaped perforation

Cross-shaped perforations make it possible to lay the sheets flexibly and to ensure that they are absolutely level over the whole area. Once the synthetic turf system has been installed on a suitable base layer, the perforations guarantee excellent water permeability, so that the synthetic turf pitch can be used again immediately after heavy rain.

Closed-cell material structure

BECOLASTIC offers a wide range of advantages compared to elastic layers based on open-cell structures such as for example in-situ elastic layers (EL/ET-layers). In contrast to those shock pads that are water-permeable through their overall cell structure and surface area, BECOLASTIC does not absorb water thanks to the closed-cell structure of the material and is, therefore, absolutely frost resistant. The synthetic turf remains elastic even in sub-zero conditions.

Nor can any foreign substances, such as dust, sand or liquids, etc. possibly penetrate the closed-cell structure and change the elastic properties of BECOLASTIC.

*Water infiltration rat ≥ 1.000 mm/h

FUNCTIONS
BECOLASTIC Shock Pads

Synthetic turf systems and shock pads are regulated in the DIN EN 15330-1, DIN SPEC 91335 and DIN 18035-7 standards and recommendations and have to meet a wide range of requirements. The core functions include suitability for sports, protective and technical functions, and environmental compatibility.

Sports function
The sports function relates to those properties of the synthetic turf that affect playing performance and the stress placed on players. The spectrum of requirements covers rotational resistance, ball roll behaviour, levelness, vertical ball rebound and vertical deformation of the synthetic-turf surface.

Protective function
The protective function of the synthetic turf playing field serves to reduce the players' risk of injury and of damage to the musculoskeletal system. The fundamental requirements here are shock absorption, rotational resistance and vertical deformation of the turf system.

Technical function
The technical function of the system covers requirements affecting the service life of the synthetic turf field, such as ageing, wear, contact diffusion and dimensional stability.

Environmental compatibility
Environmental friendliness is assessed in relation to the long-term effects that the components of the synthetic turf system have on the soil and groundwater.

We are happy to supply current data sheets, specifications, certificates and technical verifications on request.
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BECOLASTIC complies with the current requirements of DIN EN 15330-1, DIN SPEC 91335 and DIN 18035-7 and can be perfectly used in artifical turf systems designed to meet the highest requirements as set forward in the FIFA Quality Concept Handbook for artificial turf.
FIFA Recommended 1 Star und 2 Star Quality Concept.

INSTALLATION
instructions

BECOLASTIC can be laid quickly, conveniently and easily in a single operation. The synthetic turf can then be laid directly on top of the BECOLASTIC Shock Pad, ensuring that the entire synthetic turf playing field can be installed within a very short time.

BECOLASTIC Shock Pads are usually installed by experienced sports contractors. If required, we can also instruct inexperienced contractors on how to lay BECOLASTIC.

To be considered:

1. The layers can be laid in all normal weather conditions. The work need only be interrupted or postponed in case of heavy rain or strong winds.
2. The shock pads must be laid on a bound or unbound sub-base layer in accordance with DIN SPEC 91335 or DIN 18035-7 standard.
3. The BECOLASTIC sheets are laid adjacent to each other with butt joints. They are then fixed together using a special adhesive seam tape.

APPLICATIONS
BECOLASTIC Shock Pads

BECOLASTIC Shock Pads are suitable for a wide range of applications in soccer:

- Full-size football pitches
- Training pitches
- Small playing fields
- Indoor football
- School sports fields
- Sports schools

SUSTAINABILITY

Sustainability is becoming increasingly important, especially in new construction projects. Thanks to its environmental compatibility and long service life, the BECOLASTIC Shock Pad contributes to sustainability.

Durability and a long useful life
The excellent performance of BECOLASTIC has been verified in independent long-term studies. Repeated inspection tests have shown that the force dissipation values and material properties remain practically constant over the years. Optimal test values were obtained even in cases where the worn synthetic turf had been replaced and the original BECOLASTIC Shock Pad left in place.

Environmentally compatible
BECOLASTIC Shock Pads are made of environmentally neutral, closed-cell polyethylene foam, so that no environmentally harmful leaching can occur. This means that they can even be used in drinking water catchment areas.
The environmental compatibility is tested in accordance with DIN 18035-7.

ADVANTAGES
BECOLASTIC Shock Pads

- → Excellent long-term elasticity, outstanding long-term stability and consistent performance
- → Defined and constant quality, resulting from industrial production
- → Excellent water permeability
- → Simple and convenient installation
- → Easy to cut to size using a cutter or Stanley knife
- → Excellent chemical and microbiological resistance
- → Environmentally compatible and harmless to the environment, suitable for use in waterbody areas
- → Very good cost-benefit ratio

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SPO.21123 | B | 06.2022-EN