



# PEGASOFT

Jointless Safety Surfaces



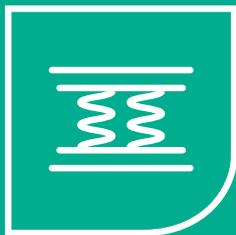
# KEY ADVANTAGES

## at a glance

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→ Many design and application possibilities



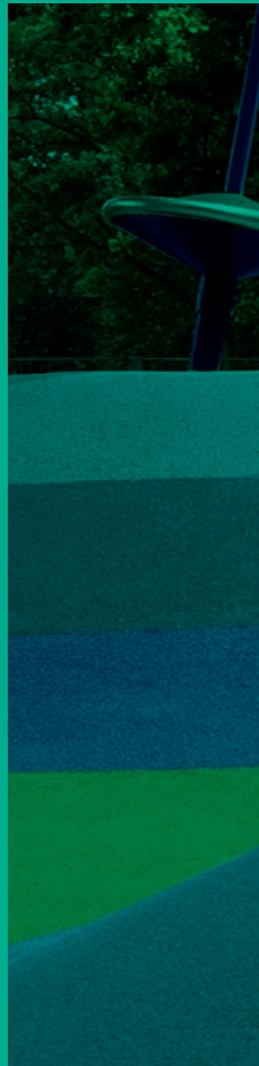
→ Consistent and uniform level of fall protection across the entire area



→ Long service life and excellent weather resistance



→ Cost-effective and sustainable overall concept



# PEGASOFT

## Jointless Safety Surfaces

MADE IN  
GERMANY



As a fall protection system, PEGASOFT allows architects, clients and design engineers the greatest possible freedom to experiment with form and colour and sets no limits for the imagination.

With 24 standard colours available, a wide range of patterns, blends and colour combinations can be created. This not only improves the visual appeal of the entire area, but also significantly improves the use of the safety surface.

# PRODUCT DETAILS

## and properties

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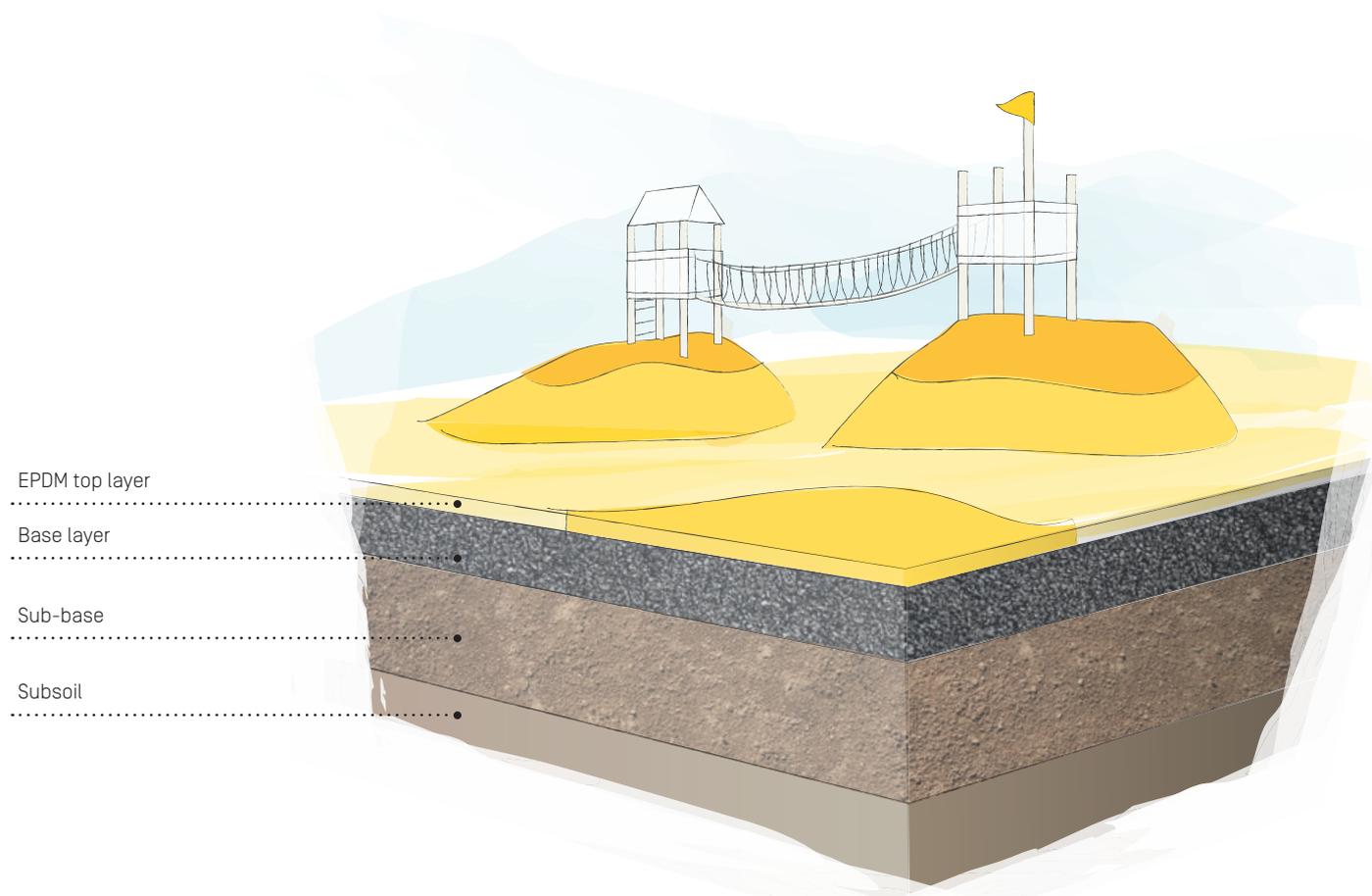
### Three dimensional design

Compared to standard safety tiles, PEGASOFT makes it possible to create diverse and multi-faceted safety surfaces. Hills, troughs, waves and channels can be created with a gentle, ergonomic design and inclinations of up to 45 degrees, without any unwelcome edges or steps. With PEGASOFT, it is also possible to create barrier-free safety surfaces. Wheelchairs and walking aids can be used on these surfaces without any problem at all.

### Seamless construction on site

PEGASOFT Jointless Safety Surfaces are installed in-situ by experienced installation teams in accordance with the specifications of the design engineers and clients. The surfaces comprise a highly elastic base and a colour-fast EPDM top layer. PEGASOFT Safety Surfaces can be installed quickly, cost-effectively and safely on a bound or unbound sub-base layer.





### Safety with style

With PEGASOFT, the ratio of cost to achievable effect is optimal. PEGASOFT Safety Surfaces transform dreary areas into safe, colourful and varied spaces where people can live and play. Thanks to its excellent force reduction values, PEGASOFT guarantees the safety of all users and gives the operator peace of mind.

### Durable overall concept

The PEGASOFT surface is made of through-coloured EPDM granules and is laid in-situ without any joints or steps. The surfaces therefore have a long service life and optimum properties with regard to use and maintenance. Even vandalism stands practically no chance against them.

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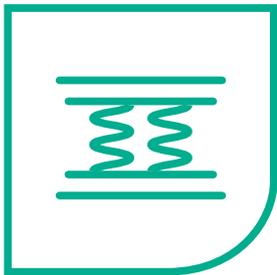
Experience of how the surface performs in practice is what really counts, of course. This is where PEGASOFT Safety Surfaces demonstrate their quality. In practice, the actual service life of the wear-resistant, weatherproof and UV-resistant EPDM granulate far exceeds the warranty period, which makes the investment in PEGASOFT worthwhile in every respect.

# FUNCTIONS

## PEGASOFT

### Jointless Safety Surfaces

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The main reason for installing safety surfaces is to protect users from serious accidents. At the same time, the surfaces should also offer endless possibilities for creative architectural design using shape and colour.

PEGASOFT, the jointless safety surface made of high-quality rubber granulate, meets these requirements to the highest degree. Thanks to our many years of experience, the possibilities for creating imaginative surface designs with optimum fall protection properties are practically limitless.





### **Permanently cost-effective safety surfaces**

Safety surfaces are often constructed with loose fill material such as sand or bark mulch. Such surfaces require constant maintenance, however, and regular ongoing costs are incurred for the replacement of the loose material.

The maintenance costs for PEGASOFT Safety Surfaces are comparatively low. Taking into account the total costs over the years, PEGASOFT Safety Surfaces made of rubber granulate are significantly more economical than loose material. Moreover, the jointless safety surfaces offer a consistently high level of fall protection.





# TECHNICAL DETAILS

## at a glance

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### **Tested safety**

PEGASOFT fall protection surfaces are laid on site in thicknesses from 30 to 140 mm, for fall heights of up to 3.20 m, and are tested according to the standard DIN EN 1177 "Impact attenuating playground surfacing – Determination of critical fall height".

Various thicknesses of the PEGASOFT Safety Surface layer have been tested, following a specified test procedure, to determine the critical fall height. The safety surface must remain below the upper limit of 1,000 HIC (Head Injury Criterion) for the reduction of serious head injuries. The certifications apply only if playground equipment tested according to DIN EN 1176 is used, however.

### **Care and maintenance**

With the right care and maintenance, PEGASOFT Safety Surfaces have a very long service life, even in intensive use. Superficial soiling, with soil, leaves or moss, for example, can be easily removed with a broom.

If the dirt cannot be removed in this way, a high-pressure washer with extension lance can be used for cleaning. The lance must be used carefully and be held at a sufficient distance from the surface to avoid causing any damage.

Mechanical cleaning machines must not be used. We also offer professional care and maintenance services, if required.

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We are happy to supply current data sheets, specifications, certificates and technical verifications on request.

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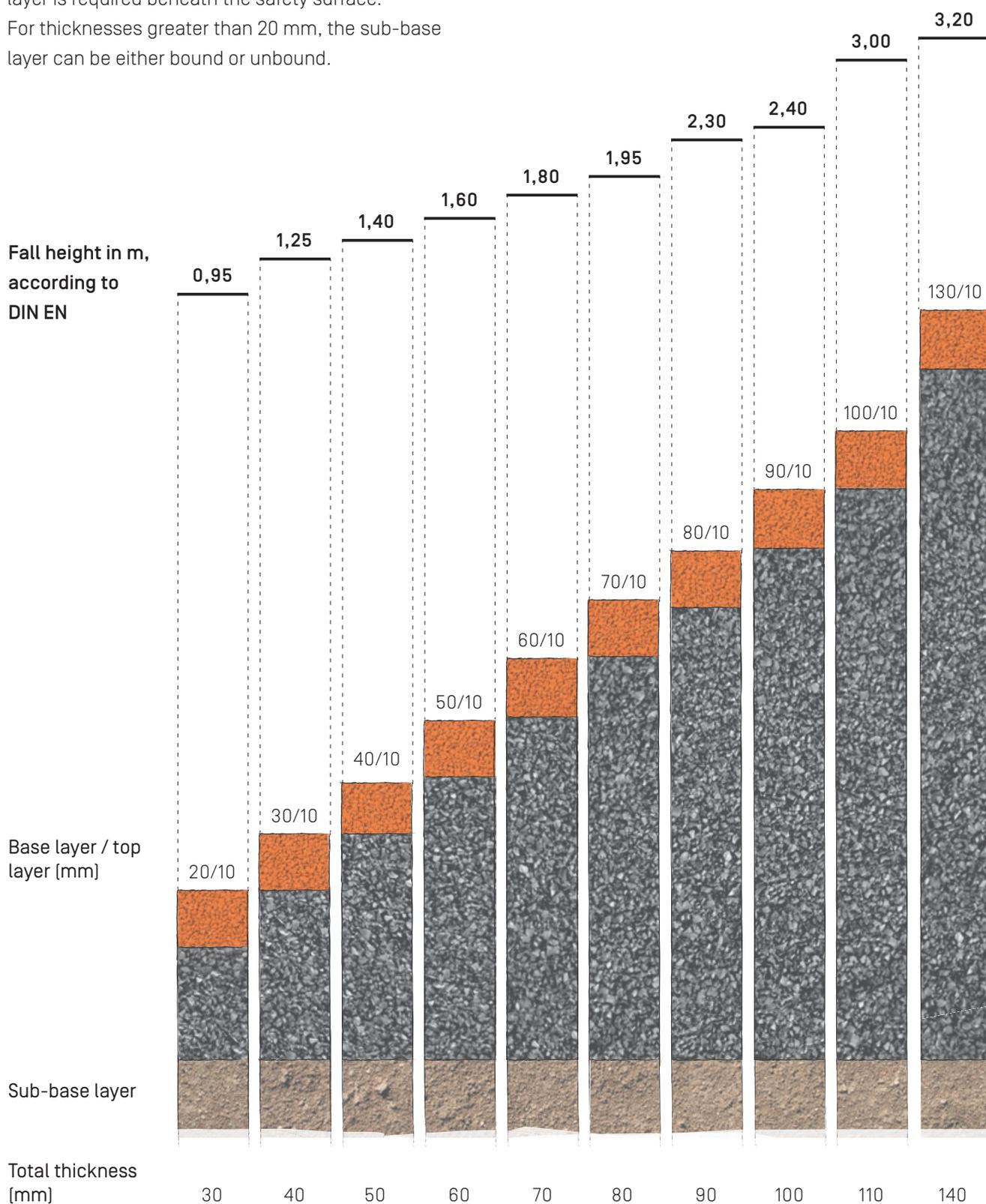
Website: [www.beco-bermueller.com](http://www.beco-bermueller.com), Email: [info@beco-bermueller.com](mailto:info@beco-bermueller.com)

# Fall heights

Tested according to DIN EN 1177:2018 Critical FH (HIC).

For total thicknesses of up to 20 mm, a bound sub-base layer is required beneath the safety surface.

For thicknesses greater than 20 mm, the sub-base layer can be either bound or unbound.



# APPLICATIONS

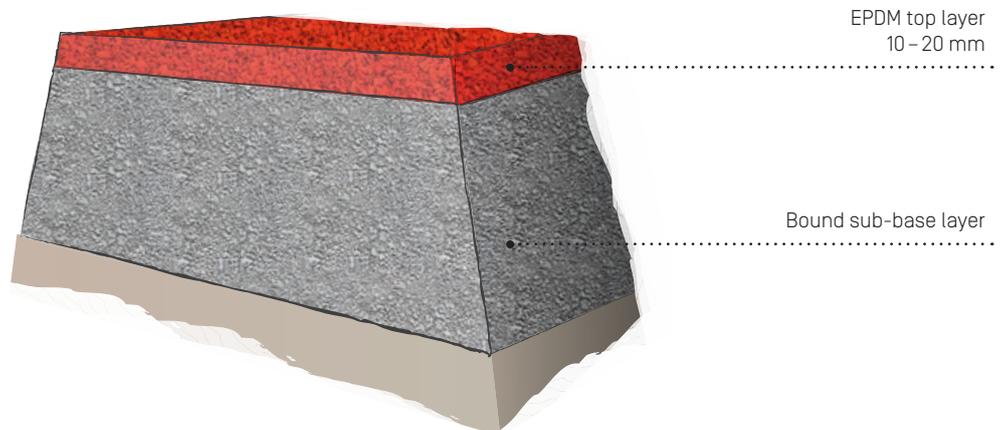
## PEGASOFT Jointless Safety Surfaces

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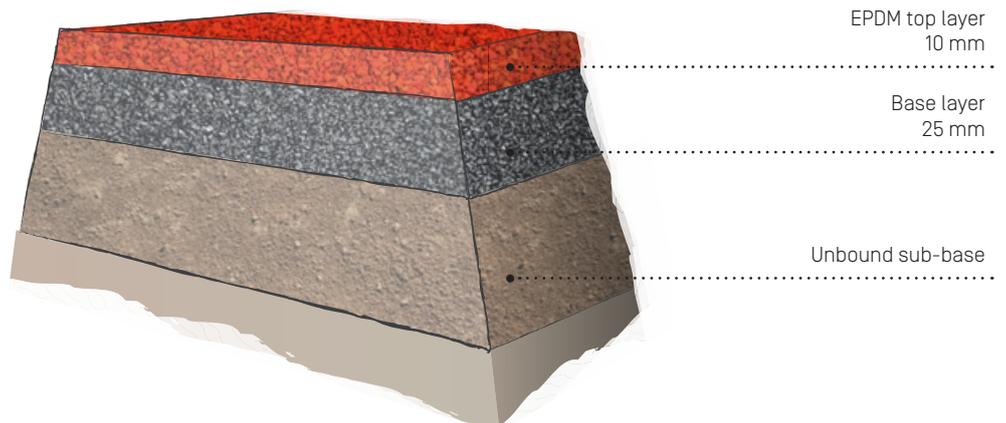
Seamless PEGASOFT Safety Surfaces made of granulated rubber provide the required level of safety for outdoor facilities and are suitable for a wide range of applications:

- Playgrounds
- Retirement homes
- Care homes
- Hospitals
- Amusement parks
- Swimming pools
- Hotels and restaurants
- Gardens and parks
- Climbing walls
- Pedestrian zones
- Golf course
- Roof gardens
- Multisport fields
- Dementia-friendly gardens
- Outdoor gyms

**Single-layer construction for paths, seating areas, playing fields or sports fields, for example**

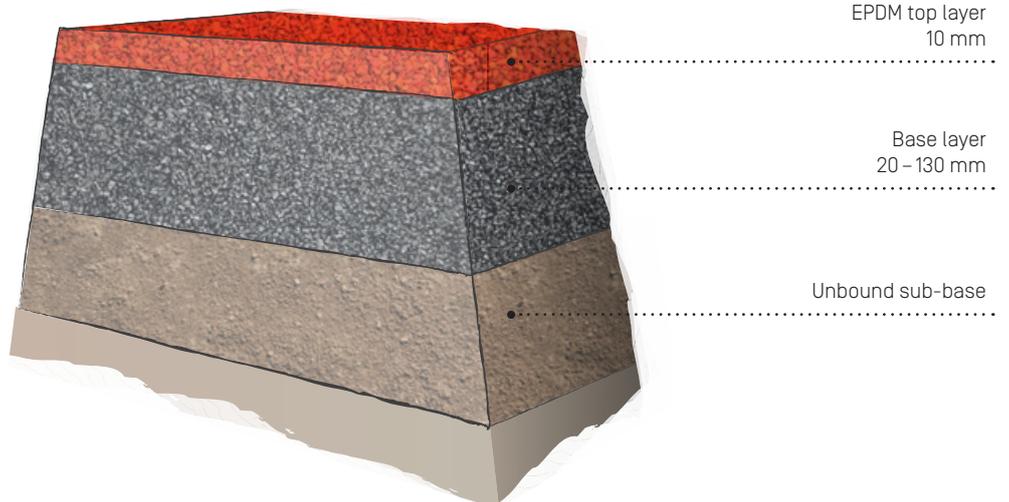


**Two-layer construction for sports fields**





**Two-layer construction  
for all areas requiring  
fall protection**



# APPLICATIONS

## in practice

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“The “alla hopp”  
outdoor gym for everyone”  
in Ketsch

Construction period: 2 weeks

Site location: Am Wasserwerk 1–5,  
in the waterworks park, 68775 Ketsch

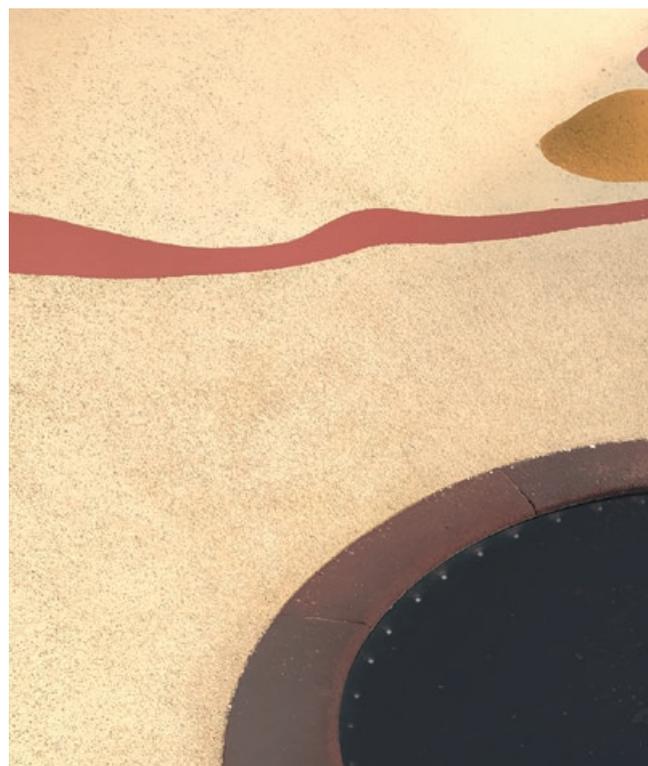
System: PEGASOFT Jointless Safety Surfaces

Quantity:

- 35 m<sup>2</sup> PEGASOFT safety surface,  
two layers, 90 mm
- 290 m<sup>2</sup> PEGASOFT safety surface,  
two layers, 50 mm
- 133 m<sup>2</sup> PEGASOFT play surface, 15 mm

Main colour: 95% Eggshell, 5% Slate Grey.  
Embellishments in Earth Yellow, Orange  
and Red

Note: Professional manual installation  
by specialist installers





## “The “alla hopp” outdoor gym for everyone” in Ketsch

An exercise and meeting point for young and old at the waterworks park in Ketsch, sponsored by the Dietmar Hopp Foundation.

### Summary:

- 458 m<sup>2</sup> jointless safety surface, installed manually
- Sophisticated inlays in Earth Yellow, Orange and Red
- Main colour for all areas: Eggshell with 5% Slate Grey
- Challenging height profiles
- Maintenance-free play surface with an expected service life of up to 20 years
- Colour-fast EPDM granules guarantee many years of pleasure with no fading of the colours



### The requirements

The Dietmar Hopp Foundation sponsors social, medical, educational and sports projects. As part of its “alla hopp!” programme, the foundation is constructing 19 exercise and meeting areas within the Rhine/Neckar metropolitan region. One of these is the alla hopp! project in Ketsch, with its outdoor gym for everyone, which covers an area of almost 11,000 m<sup>2</sup> in the waterworks park. The purpose of this project is to maintain an intergenerational meeting point. Both young and old can “play” here and meet up. Landscape architect Norbert Schäfer, of Ingenieurbüro Stadt + Natur based in Annweiler, designed the area with participation from the local residents. The surfacing includes 458 m<sup>2</sup> of safety and elastic surfaces designed for fall heights of up to 2.30 m and incorporating sophisticated inlay work. The main colours of the surfaces come from the 95 % Eggshell and 5 % Slate Grey high-quality EPDM granules.

The embellishments are in Earth Yellow, Orange and Red. Play and fitness equipment, such as trampolines, a roundabout and various fitness devices, had to be incorporated into the design of the surfacing.



Image on the left: colourful hilly landscape in the play area; image on the right: view of the outdoor gym

### The solution

In March, BECO BERMÜLLER was commissioned by Fichter, from Raunheim, to install the jointless elastic and safety surfaces. Work on this challenging project was already underway in April.

35 m<sup>2</sup> of PEGASOFT safety surfacing was laid, with a total thickness of 90 mm (in two layers: 80 and 10 mm). The fall height for this area was 2.30 m.

290 m<sup>2</sup> of PEGASOFT 50 mm thick (40 and 10 mm) was installed, with a fall height of 1.60 m. And the remaining 133 m<sup>2</sup> of PEGASOFT was installed as a single-layer elastic surface, 15 mm thick. The works were finished as early as May and handed over on time in June.

### The result

The result was a very colourful and varied area with different height profiles, which required a very high standard of craftsmanship. BECO BERMÜLLER has been installing this type of surfacing using manual techniques since the early 1990s. With this high quality of workmanship, planners have great freedom of design and can also include complex inlays. The harmonious contours of the height profiles break up the overall area and provide a durable surface, especially in the areas where the profiles change. The permeable concrete used in the hilly areas provides a good working basis and the necessary support for inclinations of up to 45 degrees.

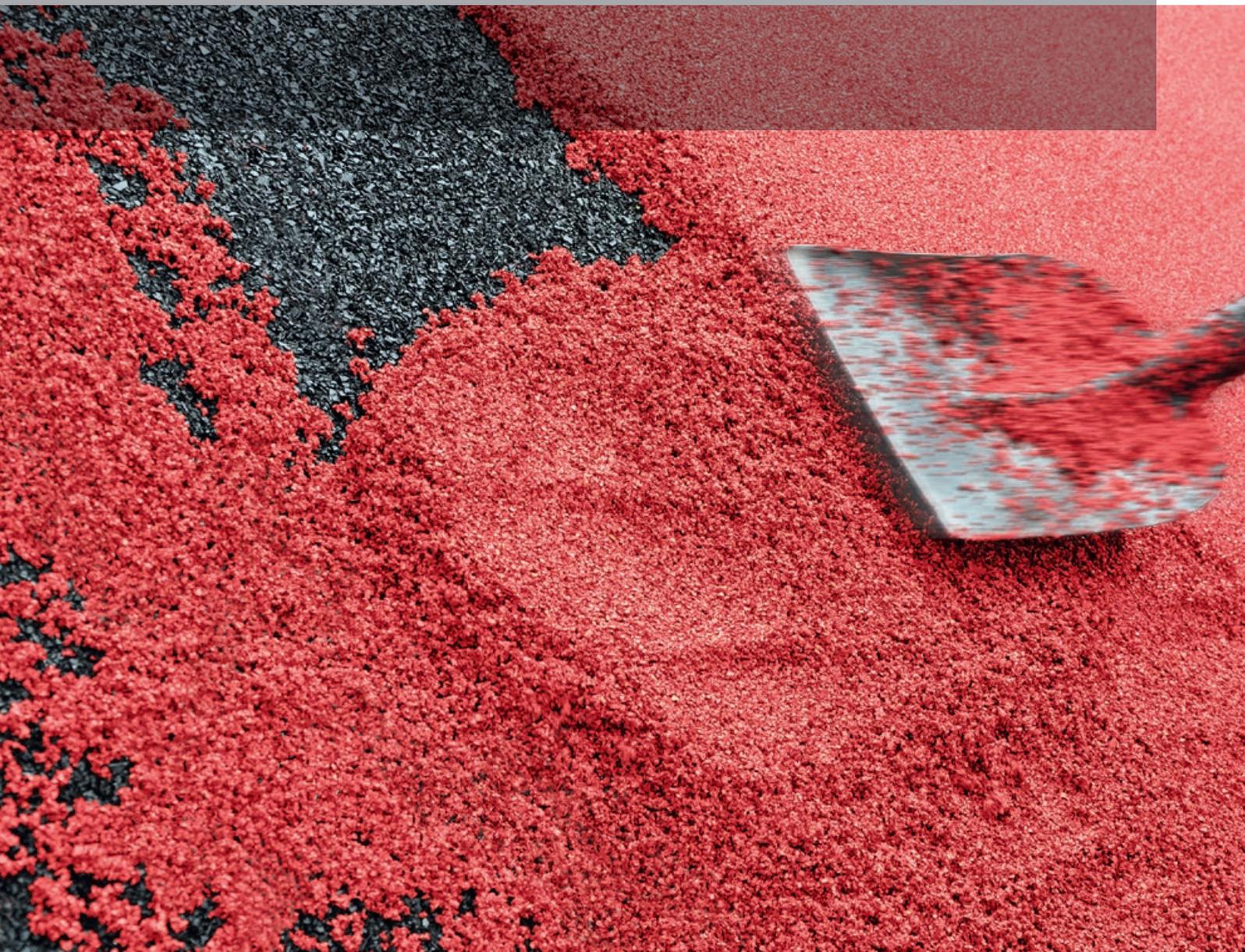
Thanks to the excellent permeability of the PEGASOFT Safety Surfaces, the play area is soon ready for use again after rainfall.

# INSTALLATION

## PEGASOFT Jointless Safety Surfaces

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PEGASOFT Safety Surfaces are installed only by experienced and specialised PEGASOFT installers. The installation companies authorised by BECO BERMÜLLER always carry out the installation work meticulously, professionally and cost-effectively.





As a service provider, we offer clients, designers and contractors a comprehensive package:

1. Expert advice during the planning phase
2. Fulfilment of the orders with perfect workmanship and expertise
3. High quality rubber granules made of extremely durable EPDM
4. Regional presence, making even relatively small projects cost-effective
5. Full protection properties that meet the requirements of the project and the required certifications
6. Professional implementation of the tender specifications and of the creative ideas of the designers and clients
7. Short construction times and flexibility in adapting to specified deadlines

# Colour chart PEGASOFT Jointless Safety Surfaces

For printing reasons, the colours cannot be represented exactly.  
We will be happy to send you original colour samples, on request.



**Pearl**  
RAL: 1013



**Eggshell**  
RAL: 1015



**Sand Yellow**  
RAL: 1002



**Beige**  
RAL: 1001



**Brown**  
RAL: 8024



**Earth Yellow**  
RAL: 1006



**Lemon Yellow**  
RAL: 1012



**Orange**  
RAL: 2011



**Rose**  
RAL: 3017



**Red**  
RAL: 3016



**Purple**  
RAL: 4005



**Blue Grey**  
RAL: 5014



**Turquoise Blue**  
RAL: 5018



**Teal**  
RAL: 5024



**Sky Blue**  
RAL: 5015



**Rainbow Blue**  
RAL: 5017



**Gentian Blue**  
RAL: 5010



**Hertha Blue**  
RAL: 5002



**Capri Blue**  
RAL: 5019



**Signal Green**  
RAL: 6032



**Rainbow Green**  
RAL: 6025



**Patina Green**  
RAL: 6000



**Reseda Green**  
RAL: 6011



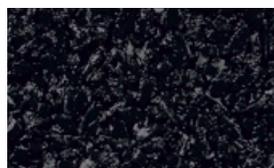
**May Green**  
RAL: 6017



**Light Grey**  
RAL: 7035



**Iron Grey**  
RAL: 7011



**Slate Grey**  
RAL: 7015



**Black**  
RAL: 9004

# ADVANTAGES

## PEGASOFT Jointless Safety Surfaces

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- Many design and application possibilities
- Consistent and uniform level of fall protection across the entire area
- Tested and verifiable fall protection properties
- Long service life and excellent weather resistance
- Low costs for care and maintenance
- No dips or holes develop under frequently used play equipment
- Reduced contamination with animal excrement
- Easy-to-clean surface
- Slip-resistant surface
- Barrier-free surface concept
- Good water permeability and therefore fast drying
- Reduced sound emissions
- Cost-effective and sustainable overall concept





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