

SAFE & SUITABLE FLOORING

Installation and maintenance guid





SAFE AND SUITABLE FLOORING – **RUBBER TILES**

1. PRODUCT INFORMATION

The rubber tiles produced by Elastful are designed for outdoor and indoor infrastructure objects with a high risk factor for injury. Rubber tiles fully comply with the European Union standard EN 1177:2018, established by the European Committee for Standardization.

Our rubber tiles are produced from recycled SBR rubber granules, which can be colored in brown, red, yellow, orange, green, gray and blue. All rubber granules are bonded with a polyurethane binder.

Safety is one of the main advantages of rubber tiles. The rubber tiles we offer have a flexible structure that provides cushioning and protects against dangerous falls. They are weather resistant and perfectly drain water. Rubber tiles provide good surface adhesion in any weather and are an aesthetic flooring with very wide possibilities of use.

Rubber tiles are an excellent covering solution for playgrounds, gyms, balconies and terraces, garages, basements, horse stables and industrial use. Due to the good moisture dissipation properties of rubber tiles, they are an excellent solution for surfaces around swimming pools and other places where increased safety is required.

2. INSTRUCTIONS FOR INSTALLING RUBBER TILES

- Elastful products should be stored in a clean, dry and dark place at a constant temperature above 10°C. If stored in a room where the temperature is below 10°C, the rubber tiles must be kept at the temperature of the place of installation (> 10°C) for at least two hours before installation.
- Unsuitable storage temperatures and prolonged storage of rubber tiles on pallets may slightly affect the size of the products.
- Elastful products should not be stored in direct sunlight without a UV protective film.
- The tolerance for the size of rubber tiles is approx. +/- 0.8% in length and width, +/- 2 mm in thickness.

Required tools and accessories

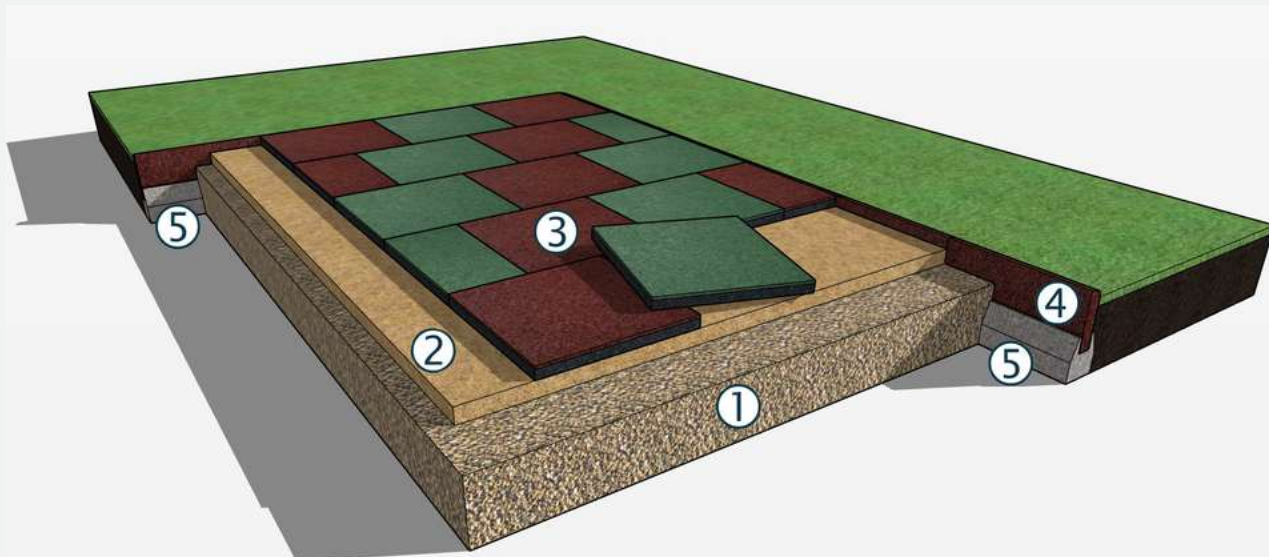
- Knife for cutting with interchangeable blades
- Steel corner ruler
- Handsaw or jigsaw (with blades for wood)
- Felt-tip pens (water-soluble) or chalk
- Measuring tape
- Two-component polyurethane binder (MAPEI Adesilex G19 or equivalent)
- 3 mm notched trowel
- Work gloves
- Knee pads

Recommendations for the preparation of the subgrade

- The best subgrade is leveled gravel (grain size: 2-8 mm, water-permeable) or concrete.
- The subgrade must be level, stable and protected from frost.
- To contain the rubber tile flooring, it is necessary to create concrete or rubber edging around the perimeter.
- If you lay the flooring without edging, the rubber tiles may move and shift against each other.
- In areas of high traffic, we recommend laying geotextile under the rubber tiles.
- Pay attention to the slope and/or water permeability of the subgrade to ensure drainage. If the subgrade is impermeable, the recommended slope of the subgrade to ensure adequate water flow is 2%.
- Before laying the tiles, it is recommended to perform a thorough inspection of the subgrade - acceptance.

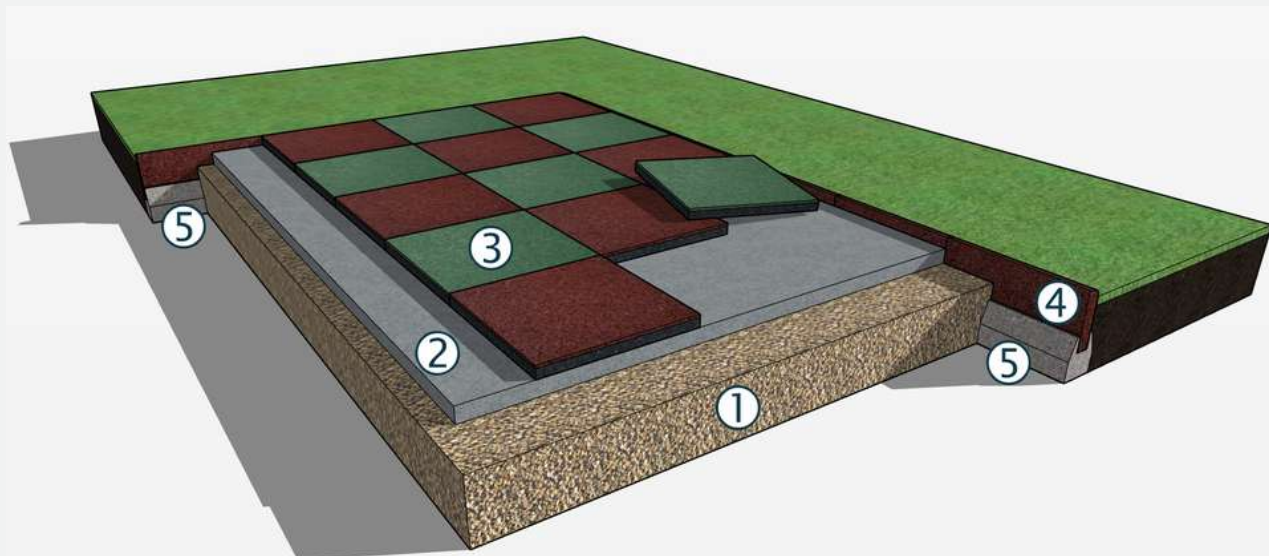
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Preparation of unbound subgrade



1 - crushed stone, fraction 0-32 mm, min H = 150 mm;
2 - crushed stone, fraction 2-8 mm, H = 50 mm; **3** - Elastful rubber tiles; **4** - Elastful rubber edging, 500x200x50 mm; **5** - concrete foundation for edging, C12/15.

Preparation of bounded subgrade



1 - crushed stone, fraction 0-32 mm, min H=200 mm;
2 - water-permeable layer of concrete or asphalt, min H = 25 mm;
3 - Elastful rubber tiles; **4** - Elastful rubber edging, 500x200x50 mm;
5 - concrete foundation for edging, C12/15.



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Note: Because rubber products absorb heat, the temperature of Elastful tiles under direct sunlight may be higher than asphalt exposed to the same conditions. Elastful products should be installed and stored in shaded areas to avoid potential overheating. Elastful tiles are flexible products with open pores. It is possible that the size of the products may change due to weather conditions.

Preparation of the subgrade

The following instructions must be followed closely by the contractor performing the subgrade preparation.

The existing soil must be excavated to a depth of at least 300 mm + the thickness of the tiles to be laid. If there is no edging in the area where the rubber tiles are to be installed, apply Elastful rubber edging to prevent the surface from moving. If you have questions about the condition and properties of the soil or how the soil is expected to react, consult a soil mechanic. Compact each layer to 98% of standard Proctor density using a vibratory roller. Re-check the smoothness of the surface after applying the final layer and correct any irregularities. All subgrade surfaces must be flat, even, clean and dry before installation. Concrete and asphalt surfaces should be free of cracks, paint, dirt, oil or other surface contaminants. An unevenness of more than 3 mm is not permitted on concrete and asphalt surfaces. Good drainage of the surface must be ensured, either by laying the surface with sufficient slope or by laying drainage pipes at the lowest points of the surface.

Installation of Elastful rubber tiles (unbounded subgrade)

To ensure ideal conditions for laying rubber tiles, the ambient temperature at the installation site must be above 4°C for at least 24 hours before starting work. Do not install Elastful rubber tiles if the ambient temperature at the installation site is expected to be below 4°C for an extended period of time.

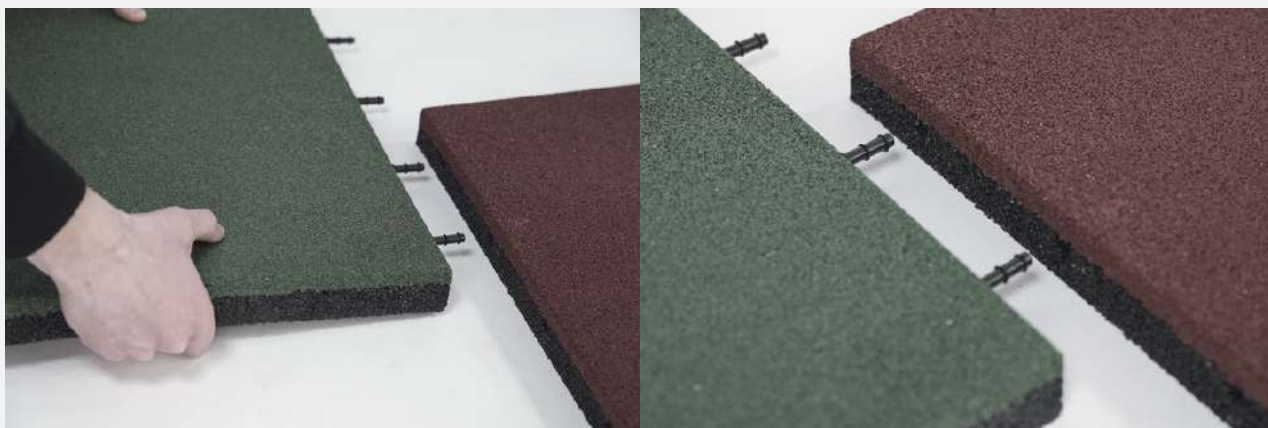
We recommend the following steps to reduce size differences in Elastful rubber tiles:

- Ensure that all tiles to be installed are at the same temperature throughout the installation;
- Place the rubber tiles on the ground in no more than 2-3 layers and allow them to return to their original size at least 2 hours before installation;
- If possible, install the rubber floor at once to ensure similar conditions.

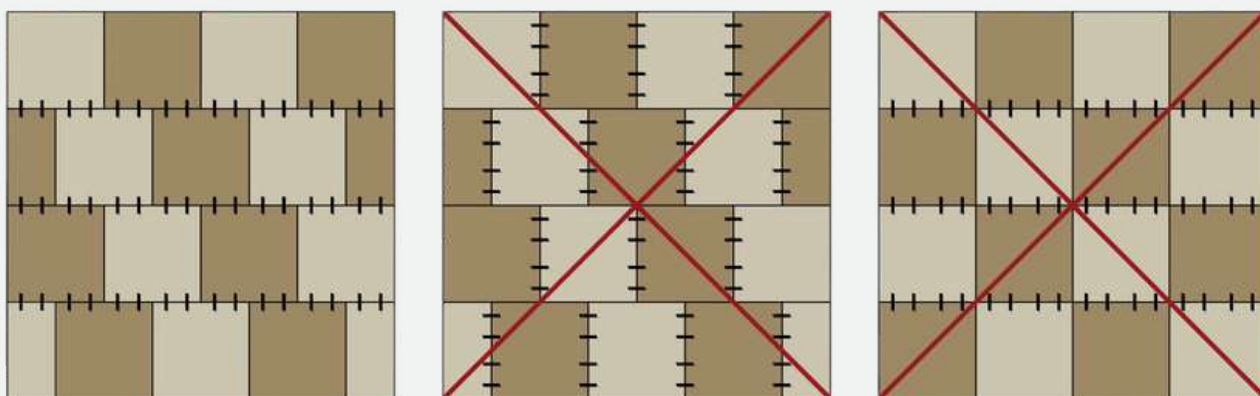
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Begin installation by laying a chalk line parallel to and the full width of the slab away from one side of the area to be covered. Lay a second chalk line exactly perpendicular (at a 90° angle) to the first. Check that the lines are perpendicular to each other according to the 3/ 4/ 5 rule: Starting from the intersection of the lines, measure exactly 3 m from the first line and mark this point. Then measure exactly 4 m from the second line and mark this point. Measure the distance between the two marked points. If the lines are perpendicular to each other, the distance between the points is exactly 5 m.

Lay the first row of rubber tiles exactly along the chalk line. Start the second row (and every second row after that) with half the tile. Connect the tiles in the second row to the first using the integral connecting pins (see Fig. 1). The masonry-like arrangement gives stability to the installed tiles (see Fig. 2). Cut the last tile in each row to the desired size.



(Figure 1)



(Figure 2)

When installing rubber tiles on unbound subgrade, it is recommended to use rubber tiles with a thickness of at least 40 mm to avoid deformation and movement of the surface.

Installation of Elastful rubber tiles (bounded subgrade)

Elastful rubber tiles on the hard surface can be laid in two ways:

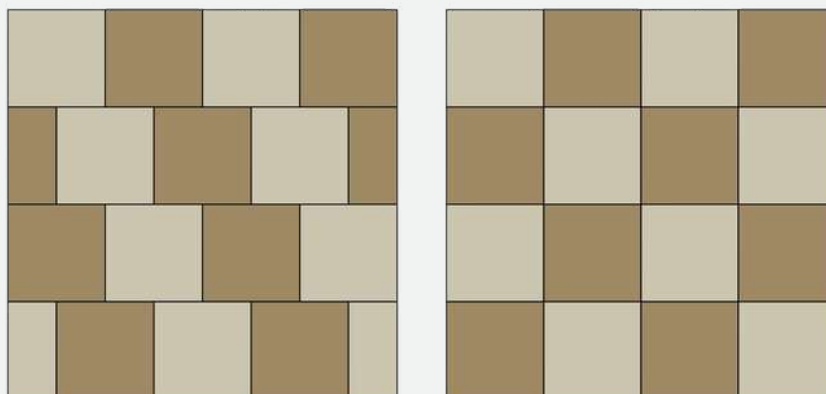
- Using pins to connect the tiles

Lay the first row of Elastful rubber tiles exactly along the chalk line. Start the second row (and every second row after that) with half the tile. Connect the tiles in the second row to the first using the integral connecting pins (see Fig. 1). The masonry-like arrangement ensures the stability of the installed tiles (see Fig. 2). For the installation of 1 m² of rubber tiles, 8 pins are required. If there is no edging in the area where the rubber tiles are to be laid, the covering must be glued around the perimeter (outer tiles) with a polyurethane binder (MAPEI Adesilex G19 or equivalent).

- Using a polyurethane binder

Before bonding the rubber tiles, you must spread the adhesive on the concrete/asphalt surface. Apply the appropriate adhesive (MAPEI Adesilex G19 or equivalent) to the concrete surface using a 3 mm notched trowel. Lay the first row of tiles up to the edge on the other side, checking for correct alignment and perpendicularity. Continue laying the other rows of tiles to complete the surface. Once the rubber tile installation is complete, do not allow the rubber tiles to get wet for 24 hours (until the adhesive is stiff), as water will weaken the adhesive and the tiles will not adhere to the base as intended. While the adhesive is stiffening, make sure that the ambient temperature does not change too quickly or too much. For the installation of 1 m² of rubber tiles, 0.4 – 1.0 kg of adhesive is required.

When using a polyurethane binder, Elastful rubber tiles can be laid both masonry-like and parallel (see Fig. 3).



(Figure 3)



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3. MAINTENANCE OF THE INSTALLED RUBBER TILES

Regular cleaning of your installed Elastful surface promotes long service life and an attractive appearance. No special tools or instruments are required for maintenance.

For daily indoor cleaning, you can clean the surface with a soft-bristled broom or a vacuum cleaner. To remove stubborn dirt, use a mixture of water and liquid soap and wipe the rubber flooring with a damp cloth. Then wash the floor with clean water.

CAUTION!

Never use solvent-based cleaners. They can damage the surface of the covering.

Outdoors, the surface can be treated with a broom with soft bristles, water or an air jet. If moss and algae form on the surface of the rubber tiles due to the weather, we recommend using a high-pressure water cleaner without chemical additives!

CAUTION!

The water pressure must not be too high (≤ 200 bar). The distance between the water jet and the surface must be at least 30 cm, and the water temperature must not exceed 80°C. It is recommended to perform such cleaning once a year.

In winter, it is recommended to clean the surface with wooden or plastic snow shovels. Do not use sharp metal tools that can damage the surface.

In case of damage, it is not necessary to dismantle the entire surface. It is easy to replace a damaged rubber tile with a new one.

Elastful warrants the original purchaser of this product against defects in materials and workmanship under normal use of the product for a period of twenty-four (24) months from the date of purchase. Please note: The Elastful warranty is not applicable if the product has not been installed and maintained in accordance with our installation and maintenance instructions above.

Due to their durability and ease of maintenance, Elastful rubber tiles are an economical solution with a very wide range of applications!



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THANK YOU

WE LOOK FORWARD TO HEARING FROM YOU

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INVESTING IN YOUR FUTURE

On the 11th of November 2022 "Elastful" Ltd. signed an agreement Nr. SKV-L-2022/515 with Investment and Development Agency of Latvia (LIAA) for the project "International competitiveness promotion", which is co-financed by the European Regional Development Fund.

Limited Liability Company "Elastful" has signed an agreement with Investment and Development Agency of Latvia (LIAA) on Incubation support within the framework of the ERDF Project No. 3.1.1.6/16/I/001 "Regional Business Incubators and Creative Industries Incubator".