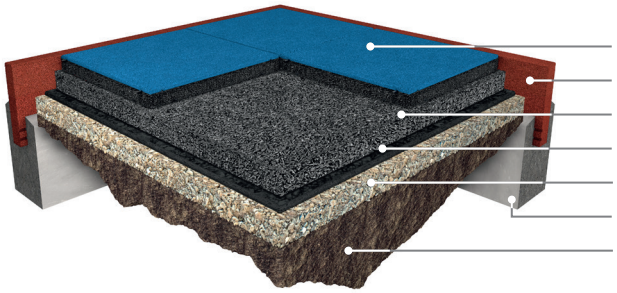
INSTALLATION INSTRUCTIONS
REGUPOL PLAYFIX SAFETY TILES

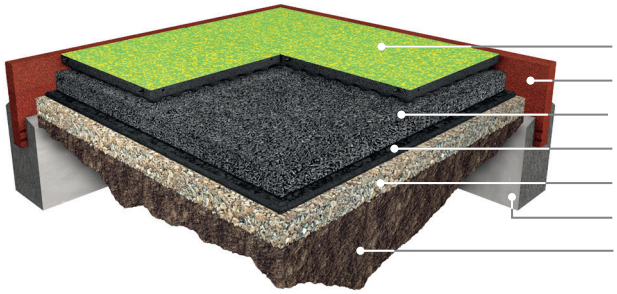
Required equipment

Heavy-duty cutting knife	Jigsaw	Plunge saw	T-square (cutting aid)	Chalk line	Chalk, or similar
Tape measure	Cartridge gun (adhesive)	Work gloves	Knee pads		

Laying on a bound base layer



REGUPOL playfix FX (EPDM) safety tile
REGUPOL playfix edging
REGUPOL playfix base mat
Lean concrete or asphalt surface
Gravel layer
Concrete base
Natural substrate



REGUPOL playfix funtastic
REGUPOL playfix edging
REGUPOL playfix base mat
Lean concrete or asphalt surface
Gravel layer
Concrete base
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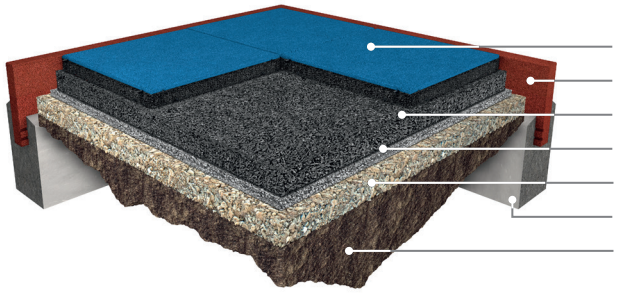
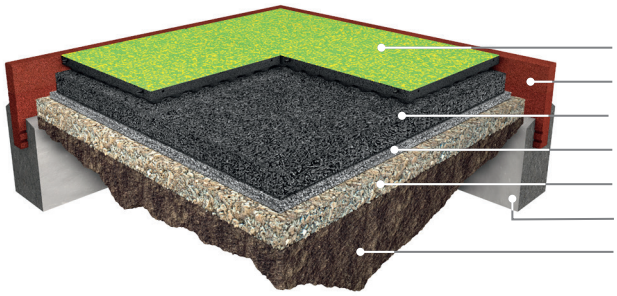
Laying on an unbound base layer



REGUPOL playfix FX (EPDM) safety tile
REGUPOL playfix edging
REGUPOL playfix base mat
Grit bed
Gravel layer
Concrete base
Natural substrate



REGUPOL playfix funtastic
REGUPOL playfix edging
REGUPOL playfix base mat
Grit bed
Gravel layer
Concrete base
Natural substrate

INSTALLATION INSTRUCTIONS
REGUPOL PLAYFIX SAFETY TILES

1. General notes
The installation instructions below assume the necessary professional and craftsmanship standards for this work. The installation instructions correspond to the current state of knowledge of **REGUPOL** and will be modified as required. Neither the manufacturer nor the distributor of **REGUPOL playfix safety tiles** can directly influence the professional installation and processing of the materials used. For these reasons, these installation instructions can only be non-binding and **REGUPOL** cannot accept any liability for the processing result.

As a matter of course, **REGUPOL** is responsible for the correct condition of the **REGUPOL playfix safety tiles** supplied, provided that no changes have been made or damage has been caused by third parties since dispatch from the factory. Our General Terms and Conditions of Business and General Terms of Delivery must be observed.

REGUPOL playfix safety tiles are insensitive to moisture and sunlight, but should be stored protected against moisture and UV radiation before installation. In addition, tiles must be protected from chemicals, oils, grease, etc. In addition to these installation instructions, the processing instructions and any safety data sheets of the adhesive manufacturers and manufacturers of other tools and accessories must be observed.

2. Base layer
REGUPOL playfix safety tiles can be laid on both bound and unbound base layers. The base layer surface must be excavated to the necessary installation depth, including the height of the tiles to be laid.

2.1 Unbound base layer
The natural substrate on which the base layer is produced must have the necessary strength, drainage capacity and resistance required for the permanent installation of floor tiles. Its surface should be even. If necessary, a compacted soil subgrade must first be created. For the edging, appropriate preparations must be carried out, which are described in the installation instructions for **REGUPOL edging**.

1. First, the substructure composed of 0/32 to 0/45 mm gravel is laid and compacted until it is stable.
The thickness of this compacted gravel layer is at least 30 cm (but may be thicker in some locations).

2. The top material of the unbound base layer consists of fine grit with a maximum grain size of 0/8 mm and a compacted thickness of 2 to 3 cm. This layer is also compacted to a stable state after soil undulations and depressions have been levelled. The surface of the unbound base layer must be level, with a maximum permissible deviation of less than 5 mm over 3 m in any direction (measured with a 3 m lath).

2.2 Bound base layer
First, the work steps are carried out as described in 2.1, point 1. A lean concrete or asphalt surface with a thickness of 25 mm is then applied to create the bound base layer. The bound base layer requires a gradient of 1% to 2% to drain off water as well as a drainage option at the edge of the surface. The surface of the bound base layer must be level, with a maximum permissible deviation of less than 5 mm over 3 m in any direction (measured with a 3 m lath).

2.3 Substructure for REGUPOL playfix funtastic (without base mat)
Due to the coarse structure on the underside of the **REGUPOL playfix funtastic** 1000 x 500 x 55 mm safety tiles, a bonded base layer is highly recommended. Installation can be carried out as described in point 3 using plug-in dowels and/or joint bonding, or alternatively by spot bonding as described in point 5. If a bound base layer is not possible for structural reasons, both the substructure and the top layer must be compacted to ensure absolute stability. High-quality installation with the dowel insertion system and/or joint bonding is otherwise not possible.

3. Determination of requirements, material inspection, installation conditions
REGUPOL playfix safety tiles must be delivered in the unopened original packaging with intact labels and accompanying documents. To determine requirements, the required area quantity must be compared with the delivered area quantity, taking into account the advantageous laying direction and expected offcuts. The tiles have surface dimensions of 1,000 × 500 mm.

Before installation, the supplied **REGUPOL playfix safety tiles** must be checked for damage, soiling and material or production defects. The tiles are subject to regular production and material inspections and are always delivered by **REGUPOL** in perfect condition to the best of our knowledge. Nevertheless, **REGUPOL** is not liable for damage or defects caused by material defects after the delivered material has been partially or completely installed.

For acclimatization, the tiles must be exposed to the temperature of the installation site for at least two hours, so that their temperature corresponds approximately to that of the installation site. The safety tiles should therefore be laid out

loosely so that their temperature can quickly adjust to the ambient air and the installation surface. The tiles should not be laid when the outside temperature is below 10°C, and laying in strong sunlight and heat should also be avoided. The tiles must be laid in a dry state. These measures ensure that the tiles are largely installed in their original dimensions. The manufacturing and material-related dimensional tolerances are ± 1% in area and ± 2 mm in height.

4. Laying on an unbound base layer
Before laying the **REGUPOL playfix safety tiles**, curbstones should be installed on two sides of the surface, if possible at right angles to each other, in order to facilitate the joint-locking and exact alignment of the tiles. For safety reasons, **REGUPOL edging** should be used to match the appearance of the tiles. Their elasticity helps to reduce the consequences of falls. The installation of **REGUPOL edging** is described in the corresponding installation instructions.

The safety tiles are laid beginning in the corner enclosed by the edging. First, a row of tiles is laid up to the opposite end of the surface and, if necessary, glued or connected with dowels. The second row is laid half offset, i.e. starting with half a tile. Continue laying as described, creating a T-joint. The offset shadow gap creates the appearance of a cross joint. Real cross joints should be avoided for reasons of surface stability. The safety tiles should be laid in exact alignment, tightly pressed together, so that there are as few gaps as possible and a strong horizontal pressure builds up over the entire surface. This prevents subsequent gaps from forming, as such tiles, regardless of manufacturer, shrink slightly in the long term due to the material.

The tiles are cut to size using a jigsaw (medium-toothed blade) or, in the case of thinner tiles, with a floor knife along a steel rail. This also applies to connections to appliance feet, drain inlets, other floor coverings, etc. The connections can be fixed by bonding.

REGUPOL playfix safety tiles are always joined together using the dowels supplied, except for the **REGUPOL playfix FX (Mulch)** .

The mulch tiles are bonded together at the sides with a single-component PUR adhesive sealant, and at the edges with the edging. The adhesive is applied in strips, and the bead diameter is about 5 to 7 mm. One cartridge of adhesive is sufficient for a tile area of around 4 m². Further information can be found in the corresponding data sheet.

5. Laying on a bound base layer
Lay as described under 4. In addition to the obligatory connection of the tiles to each other using dowels, **REGUPOL playfix safety tiles** are bonded to the bound base layer as follows: the adhesive is applied at nine bonding points on the underside of the tiles: left - middle - right, front - middle - bottom. The surface of the bonded base layer must be clean, dry and free of grease, oil and other contaminants before bonding the tiles. The tiles bonded with the adhesive are laid directly onto the base layer and pressed down.

Please note: The **REGUPOL playfix FX (Mulch)** safety tile is installed exclusively by bonding, as there are no dowel plug-in system connections.

Laying on an unbound base layer

Products	Dimensions	Laying
REGUPOL playfix FX50 (EPDM)	1 000 × 500 × 54 mm	Dowel plug-in system
REGUPOL playfix FX50+30 (EPDM) *	1 000 × 500 × 84 mm	Dowel plug-in system
REGUPOL playfix FX50+60 (EPDM) **	1 000 × 500 × 114 mm	Bonding onto each other (optional)
REGUPOL playfix FX50 (Mulch)	1 000 × 500 × 50 mm	By joint bonding
REGUPOL playfix funtastic 55	1 000 x 500 x 55 mm	Dowel plug-in system
REGUPOL playfix funtastic 85 *	1 000 x 500 x 85 mm	Bonding onto each other (optional)
REGUPOL playfix funtastic 115 **	1 000 x 500 x 115 mm	

In order to achieve a clean installation pattern over the entire surface, we recommend using a dowel insertion system for all tiles with a drilled hole.

* incl. 30 mm base plate
** incl. 60 mm base plate

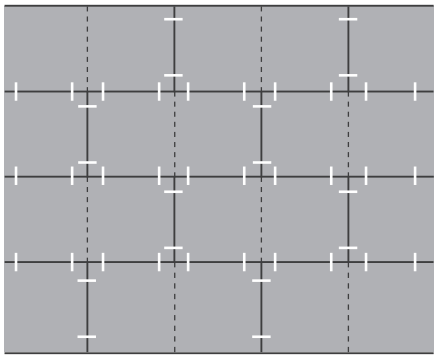
6. After laying
After laying, the surface should only be walked on or otherwise stressed with caution for about 24 hours. Rolling loads in particular can shift the tiles before the adhesive has completely set.

The cleaning recommendations for **REGUPOL playfix safety tiles** are available for download on the website **sports.regupol.com**.

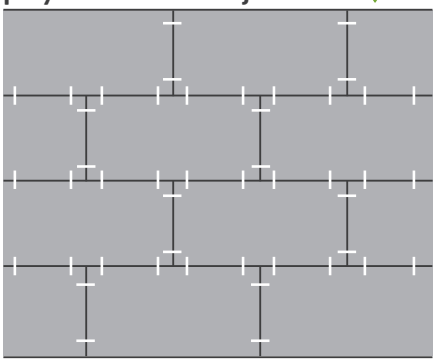
7. Application advice
REGUPOL customer advisors are available for any questions regarding the installation and care of **REGUPOL playfix safety tiles**:

Tel.: +49 2751 803-141
playground@regupol.eu

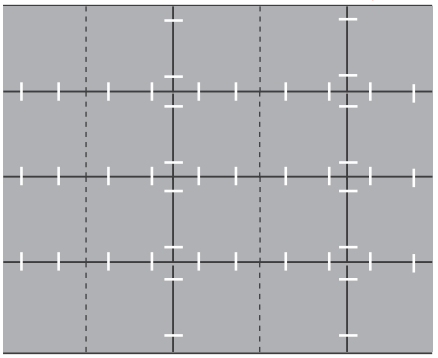
T-joints ✓



REGUPOL playfix funtastic T-joints ✓



Cross joints ✗



Laying on a bound base layer

Products	Dimensions	Bonding on underside, adhesive application
REGUPOL playfix FX50 (EPDM)	1 000 × 500 × 54 mm	Optional, dotted
REGUPOL playfix FX50+30 (EPDM) *	1 000 × 500 × 84 mm	Optional, dotted
REGUPOL playfix FX50+60 (EPDM) **	1 000 × 500 × 114 mm	
REGUPOL playfix FX50 (Mulch)	1 000 × 500 × 50 mm	Dotted
REGUPOL playfix funtastic 55	1 000 x 500 x 55 mm	Optional, dotted
REGUPOL playfix funtastic 85 *	1 000 x 500 x 85 mm	Optional, dotted
REGUPOL playfix funtastic 115 **	1 000 x 500 x 115 mm	Optional, dotted

In order to achieve a clean installation pattern over the entire surface, we recommend using a dowel insertion system for all tiles with a drilled hole.

* incl. 30 mm base mat
** incl. 60 mm base mat