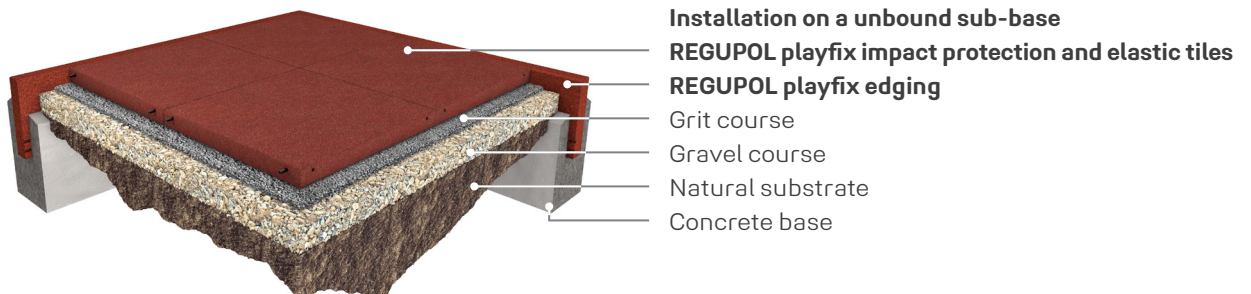
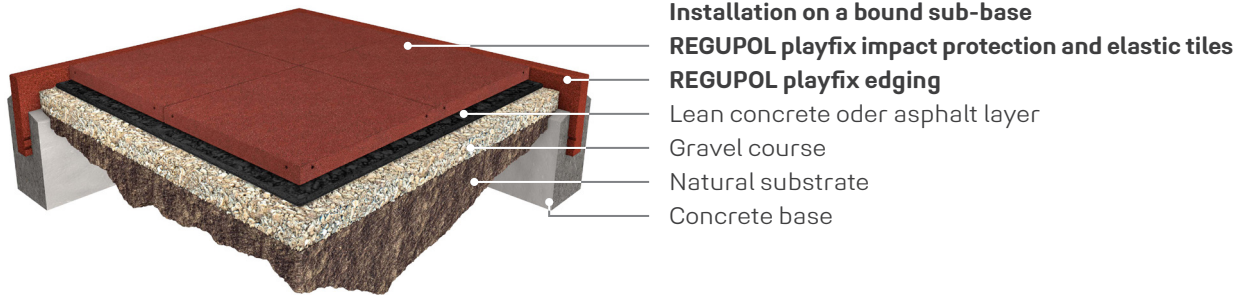


REGUPOL PLAYFIX IMPACT PROTECTION AND ELASTIC TILES



1. General information

The following safety instructions assume the necessary technical and professional standards required for carrying out this work.

The instructions comply with **REGUPOL**'s current state of knowledge and can be subject to alterations if required. Neither the manufacturers nor dealers or distributors of **REGUPOL playfix impact protection and elastic tiles** have any direct influence on the correct installation and processing of the materials used. For these reasons, the following instructions can only be regarded as non-binding and **REGUPOL** can provide no guarantee for the processing results.

Responsibility for the correct quality and condition of the supplied **REGUPOL playfix impact protection and elastic tiles** lies of course with **REGUPOL**, provided that from shipment ex works no alterations or damage have been

carried out by third parties. In this context, please refer to our general terms of sales and delivery.

REGUPOL playfix impact protection and elastic tiles are resistant to liquids and sunlight, but should, however, be stored in an environment that protects them from moisture and UV rays before installation. The tiles must also be protected from chemicals, oils, and greases, etc. In addition to these installation instructions, attention should also be paid to the processing instructions and safety data sheets of the adhesive manufacturers and the manufacturers of other auxiliary materials and accessories.

2. Sub-base

The **REGUPOL playfix impact protection and elastic tiles** can be laid on both bound and unbound sub-bases. The surface of the sub-base must be excavated to the depth needed, including the height of the tiles to be laid.

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2.1 Unbound sub-base

The natural substrate, on which the sub-base is to be laid, must have the required stability, drainage and consistency needed to support the permanent installation of the tiles. The substrate must be level and, if necessary, a compacted and levelled earth surface must be provided. The required edging preparation must be carried out, as described in the installation instructions for **REGUPOL playfix edging**.

1. First, the gravel base is laid, using 0/32 - 0/45 mm gravel, and firmly compacted. The thickness of this compacted gravel base must be at least 30 cm (may be higher, depending on local conditions).

2. The upper material of the unbound base course consists of fine gravel, to a maximum size of 0/8 mm, with a compacted thickness of 2 - 3 cm. This course is also compacted firmly, once it has been levelled and all bumps and hollows removed. The surface of the unbound base course must be level, with a maximum deviation of less than 5 mm over 3 m in any direction (measuring with a 3 m straight-edge batten).

2.2 Bound sub-base

First, follow the same steps as described in 2.1, point 1. Then, to make the bound sub-base, a 25 mm layer of lean concrete or asphalt is applied. The bound sub-base needs to have a gradient of 1 - 2 % and a drainage possibility at the edge of the surface to allow excess water to drain off. The bound sub-base surface must be level, with a maximum deviation of less than 5 mm over 3 m in any direction (measuring with a 3 m straight-edge batten).

3. Needs assessment, material inspection, installation conditions

On delivery, the **REGUPOL playfix impact protection tiles or elastic tiles** must be in the unopened original packaging with undamaged labels and accompanying documents. For needs assessment, the area of floor space must be compared to the amount of material delivered, taking into account the most favourable installation direction and the

expected wastage through cutting to size. The tiles have area dimensions of 1 000 x 500 mm or 2 000 x 1 000 mm (only the **REGUPOL playfix EL**).

Before installation, the supplied **REGUPOL playfix impact protection tiles and elastic tiles** must be inspected for damage or contamination as well as material or production faults. 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** accepts no liability for any damage or deficiencies caused by material faults after the supplied material has been partly or completely installed.

For acclimatisation purposes, the tiles must be subjected to the ambient temperature of the locations they are to be installed in for at least two hours, so their temperature corresponds to that of the location. The impact protection and elastic tiles should therefore be laid out loosely to enable their temperature to adapt quickly to that of the surrounding air and installation surface. Installation should not be carried at outside temperatures of below 10 °C. The tiles must be laid when dry. These measures guarantee that the tiles can largely be installed in their original dimensions. The dimensional tolerances resulting from factors related to material or production process amount to $\pm 1\%$ in area and ± 2 mm in height.

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4. Installation on an unbound sub-base

Before installing the **REGUPOL playfix impact protection tiles and elastic tiles**, edging stones should be laid on two sides of the area, if possible at right angles, to facilitate the precise alignment of the tiles and their joints. For safety reasons, **REGUPOL playfix edging** that match the appearance of the tiles should be used for this. Their elasticity contributes to reducing the consequences of falls. Using stone or concrete edging elements here cancels out the protective effects of the elastic flooring. Installation procedure for edging elements of **REGUPOL** is described in the relevant installation instructions.

Installation of the elastic or impact protection tiles begins in the corner enclosed by the edging elements. First of all, one row of tiles is laid up to the opposite side of the section and, if necessary, fastened together with adhesive or push-fit plugs. The second row begins with half a tile to achieve the correct stagger. Installation is then continued as described, creating a "T"-shaped joint pattern. Cross-shaped joint patterns should be avoided for reasons of surface stability. The staggered shadow joints create the optical impression of a cross joint.

The tiles should be laid precisely aligned in straight lines as closely together as possible. This is to ensure that no gaps are formed between them and to generate strong horizontal pressure across the entire surface. This is

important for preventing subsequent gap formation, as the material in these tiles, regardless of the manufacturer, will shrink slightly over time.

The tiles should be cut to size using a jig-saw (medium tooth blade for wood) or a carpet knife along a steel rail for thinner tiles. This also applies to areas where the tiles meet equipment or machine supports, drains, other floor surfaces, etc. At such points, the tiles can be bonded into place.

If edging elements are not planned or not yet installed, the tiles can be laid along a right-angled chalk line. Apart from the 15 and 22 mm thicknesses and the Safety tiles **REGUPOL playfix FX (Mulch)**, all **REGUPOL playfix impact protection and elastic tiles** are always joined together with the supplied plug-in dowels. In addition, tiles on unbound sub-bases are also bonded from a thickness of 75 mm.

The tiles are glued together at the sides, and at the edges to the edging elements, using a One-component adhesive. The adhesive should be applied in stripes of about 5-7 mm in diameter. One cartridge of adhesive is sufficient for approximately 4 m² of tiles. For more information, see the corresponding data sheet.

Products	Dimensions	bonded at sides, glue bead
Elastic tiles	1 000 × 500 × 15 mm	bonding not possible
REGUPOL playfix FX (EPDM)	1 000 × 500 × 22 mm	
	1 000 × 500 × 30 mm	optional
	1 000 × 500 × 43 mm	
REGUPOL playfix EL	2 000 × 1 000 × 43 mm	optional
Protection tiles	1 000 × 500 × 30 mm	optional
REGUPOL playfix FX (EPDM)	1 000 × 500 × 40 mm	
	1 000 × 500 × 50 mm	
	1 000 × 500 × 75 mm	always
	1 000 × 500 × 90 mm	
	1 000 × 500 × 100 mm	
	1 000 × 500 × 110 mm	
REGUPOL playfix FX (Mulch)	1 000 × 500 × 50 mm	always

Installation on an unbound sub-base

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5. Installation on a bound sub-base

Installation is carried out as described in section 4. Besides being fastened together by push-fit plugs, the **REGUPOL playfix impact protection and elastic tiles** are bonded to bound sub-bases using adhesive, as follows:

The adhesive is applied to nine spots on the underside of the tiles: left – middle – right, front – middle – rear.

For the bonding process to succeed, the bound sub-base surface must be clean, dry and free from grease, oil and other dirt and particles. The tiles with the adhesive applied are then laid directly onto the sub-base and pressed into place. There is no need to apply an adhesion primer to the sub-base, if the Two-component adhesive supplied by **REGUPOL** is used.

Please note: **REGUPOL playfix Elastic Tiles** in 15 and 22 mm thicknesses are laid exclusively using adhesive, as push-fit plugs would not provide a sufficiently strong bond in such thin material. The safety tiles **REGUPOL playfix FX (Mulch)** are also installed exclusively using adhesive.

6. After installation

After installation, the tiles should only be walked on or otherwise burdened very carefully for approximately 24 hours. Any rolling burdens should be avoided before the adhesive has bonded completely, as this could lead to the tiles being shifted.

Cleaning recommendations for **REGUPOL playfix impact protection and elastic tiles** are available for download at www.regupol.com.

7. Application advice

If you have any questions on the installation and care of **REGUPOL playfix impact protection tiles**, don't hesitate to contact our **REGUPOL** customer consultants:

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

Products	Dimensions	bonded at sides, glue bead	bonded on underside adhesive application
Elastic tiles	1 000 × 500 × 15 mm	no	always, flat
REGUPOL playfix FX (EPDM)	1 000 × 500 × 22 mm		
	1 000 × 500 × 30 mm	optional	optional, spotted
	1 000 × 500 × 43 mm		
REGUPOL playfix EL	2 000 × 1 000 × 43 mm	optional	optional, spotted
Protection tiles	1 000 × 500 × 30 mm	optional	optional, spotted
REGUPOL playfix FX (EPDM)	1 000 × 500 × 40 mm		
	1 000 × 500 × 50 mm		
	1 000 × 500 × 75 mm	always, if there is no punctual bonding to the base	optional, spotted
	1 000 × 500 × 90 mm		
	1 000 × 500 × 100 mm		
	1 000 × 500 × 110 mm		
REGUPOL playfix FX (Mulch)	1 000 × 500 × 50 mm	always, if there is no punctual bonding to the base	optional, spotted

Installation on a bound sub-base