

## 1 General requirements

1.1 These instructions describe the installation of floor coverings in buildings and structures of types A, B and C, including children's and healthcare institutions, as well as evacuation routes.

1.2 **IMPORTANT:** If TARKETT PVC floor coverings is transported or stored incorrectly, waves may form on its surface when a roll is rolled out.

1.3 Follow the requirements of this manual when installing and maintaining PVC floor coverings TARKETT (see p. 13 of this manual [hereinafter only paragraphs will be specified]).

1.4 All materials used for installation and maintenance of TARKETT PVC floor coverings must comply with the requirements of applicable manufacturer standards and technical specifications.

## 2 Recommended tools

2.1 Preparation of TARKETT PVC floor covering for installation (see p. 6 of this manual [hereinafter only paragraphs will be specified]):

- a tape measure: to measure premises;
- a pencil and a writing pad: to record measurements;
- a knife: to unpack rolls.

2.2 Cutting TARKETT PVC covering (see p. 7):

- a pencil and a flexible steel ruler to make cutting marks;
- a marking cord: to check straightness;
- a knife with a trapezium-shaped or hook-shaped blade: for rough trimming.

2.3 Installation of TARKETT PVC covering (see p. 9):

- a notched trowel recommended by the glue manufacturer: to apply glue. The size and shape of a notched trowel should ensure even application of glue on the foundation;

- a cork plate or a smooth 50 (75) kg roller: for proper and quality adhesion of TARKETT PVC covering to the foundation;

- a pencil, a ruler, a tape measure: to make final cutting markings;
- a knife with a trapezium-shaped or hook-shaped blade: for final cutting;

- a metallic ruler (guiding), a knife with a hook-shaped blade, a combi scribe, a compressing hammer: for joint cutting;
  - a cutter with a U-shaped blade: to prepare the joint for hot welding;
  - a hot air gun, a Tarkett or Leister high-speed welding nozzle 24.4 S: for hot welding of the joint;
  - a crescent-shaped knife with a tip: to remove welding cord residues.
- 2.4 Preparation of installed TARKETT PVC covering for use (see p. 10):
- a mop for dry cleaning and sweeping, a vacuum cleaner for dry cleaning: to dry clean the surface of TARKETT PVC floor covering;
  - a flat microfiber mop, a floor-washing machine to clean the floor with installed TARKETT PVC covering: to wet clean the surface of TARKETT PVC floor covering;
  - a low-speed ([150–200] rpm) single disc rotary machine: to deep clean the surface of TARKETT PVC floor covering;
  - a low-speed ([150–200] rpm) single disc rotary machine: to grind the surface of TARKETT PVC floor covering;
  - a wet vacuum cleaner: to collect dust and liquid spills;
  - a low-speed ([900–1200] rpm) single disc rotary machine: to polish polymeric mastic surface.

### 3 Recommended materials

#### 3.1 Choice of glue (see p. 8):

- acrylic water-based dispersion glue for PVC coverings (see manufacturer instructions for glue application). Do not use a solvent-based adhesive.

#### 3.2 Installation of TARKETT PVC floor covering (see p. 9):

- to weld the joint: TARKETT PVC composite welding cord (see the manual for application of the welding cord).
- to remove residual adhesive: warm water and a soft absorbent cloth made of synthetic or natural material.

#### 3.3 Preparation of installed TARKETT PVC covering for use (see p. 10):

- for wet cleaning: warm water, neutral detergent for PVC floorings (see Table 1 and the detergent manufacturer instructions), a soft absorbent cloth made of synthetic or natural material;
- for surface deep cleaning: deep-cleaning detergent for PVC covering, (see Table 1 and manufacturer instructions), polymeric mastic (see Table 1 and manufacturer instructions), pad (see color in Table 2);
- for surface grinding: deep-cleaning detergent with high dissolving ability (see Table 1 and manufacturer instructions), pad (see color in Table 2);
- for surface protection: polymeric mastic (see Table 1 and manufacturer instructions);
- for mastic surface grinding: pad (see color in Table 2).





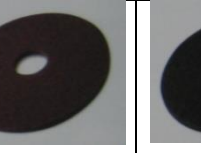

3.4 Maintenance of TARKETT PVC floor covering after installation (see p. 11):

- for primary protection: metal cleaning grates in entrance areas, pile rug;
- for wet cleaning: warm water, detergent for everyday cleaning (see Table 1 and detergent manufacturer instructions).

Table 1

Detergent used	Manufacturer		
	DIVERSEY	Johannes KIEHL KG	DR.SCHUTZ
Neutral detergent for PVC floor covering			Polyurethane cleaner
Deep-cleaning detergent for PVC covering	Jontec Futur	Veriprop Veroclean Li-EX Torvan	Basic cleaner
Deep-cleaning detergent with high dissolving ability (stripping)	Jontec 1		Strengthened basic cleaner
Polymeric mastic	Jontec Mat, Luna, Eternum	Termohospital Termodur Termodur-satina	Glossy mastic, opaque mastic
Detergent for everyday cleaning	Jontec 300, Jontec Tensol		Cleaner (R 280), Cleaner (R 1000)

Table 2

Pad, color					
White	Red	Blue	Green	Brown	Black
					
Purpose					
1. Polymeric mastic surface polishing	1. Deep cleaning (removal of small dirt particles) 2. Polymeric mastic surface polishing	1. Deep cleaning (removal of small and medium dirt particles)	1. Deep cleaning (removal of medium and large dirt particles)	1. Deep cleaning (removal of large dirt particles) 2. Surface grinding	1. Surface grinding

## 4 Requirements for the premises

4.1 Before flooring installation, all preceding construction and installation works must be completed.

4.2 Installation of flooring with TARKETT PVC covering can only be started after verifying the installation correctness of structural elements/materials to be covered, evidenced by a concealed works examination certificate.

**Important** The concealed works examination certificates must be executed for each of the underlying layers beneath the TARKETT PVC floor covering.

4.3 Prior to installation of flooring with TARKETT PVC covering, all plasterwork and other works that can moisten the flooring must be completed. This includes installation and pressure/operation testing of heating, water supply, and drainage lines. During flooring installation and until the facility commissioning, the relative air humidity in the room must not exceed 60%. The room must be draft-free.

4.4 Before starting the flooring installation works, the room temperature must be 15°C or higher for at least 24 hours after finishing work is completed.

## 5 Requirements for the foundation

5.1 The concrete foundation before installing TARKETT PVC covering should be evened out, dusted, and coated continuously along the entire surface; all high spots on the concrete surface must be polished away. Any irregularities, cracks and hollow spots must be evened out using levelling compounds/compositions (surface casting) according to manufacturer instructions for levelling compounds/compositions.

5.2 Where underfloor heating units are installed in the concrete slab the heating units shall be; Turned on prior to laying of the floor covering for 3-4 weeks to ensure that the moisture condition of the heated subfloor will permit successful laying of the floor covering. Be turned off 48 h prior to the commencement of installation to allow the subfloor to return to the temperature range recommended by the manufacturer of the floor covering. The heating units shall remain turned off during the laying operations and shall not be turned on again until 6-7 days after the laying is completed in order to allow the adhesive to set.

5.3 When installing this product on concrete subfloors that do not include damp-proofing, the moisture content measured in terms of relative humidity must not be higher than 85% (in UK and Ireland 75% according to BS 8203). Or less than 2% with CM (Carbide Method)

5.4 Where pipes are laid in the floor they should be arranged so that the flooring material is not continuously subjected to a temperature above 27°C, otherwise there may be discoloration and/or other alterations of the material

5.5 Extra special care must be taken regarding installations on surfaces where significant temperature changes can be expected, for example, floors exposed to strong sunlight, as adhesion strength and subfloor treatment may be heavily stressed.

5.6 Floor boards and similar substrates should have a moisture content of max 8% (equivalent to 40% RH at +20°C), so that any subsequent movements cannot cause damage.

5.7 The finished foundation should be dusted and coated continuously along its entire surface.

5.8 **IMPORTANT** To prevent defects such as scuff marks, change in color, “dirty” paths on the surface of TARKETT PVC covering during operation, **do not** install TARKETT PVC covering on the finished foundation with any irregularities (cracks, honeycombs, high spots), dust, **as well as** on previously installed PVC covering; on the foundation covered with oil paint; on fiber-/chipboards, on oriented strand boards (OSB), on cement boards, on gypsum-fiber sheets or plywood, which become deformed due to changes in air temperature and humidity and can emit harmful substances (phenol and formaldehyde).

## 6 Preparation of TARKETT PVC floor covering for installation

Calculate the required quantity of TARKETT PVC covering based on the largest length and width of the room, taking into account any jambs and door frames.

6.2 TARKETT PVC covering is delivered on site and must be stored according to the requirements in p. 8 *Transportation and storage* of the specification TU 22.23.15-088-54031669-2020.

6.3 Unpack delivered TARKETT PVC covering rolls as follows:

- Allow a roll to acclimate to the environment for at least 48 hours in a room at no less than +15°C if the flooring has been shipped at a temperature below 0°C.

- Allow a roll to acclimate to the environment for at least 24 hours in a room at no less than +15°C if the flooring has been shipped at a temperature of 0°C to +15°C.

- Acclimation is not required at room temperature of at least +15°C if the flooring has been shipped at a temperature of +15°C or higher.

**6.4 Important:** To avoid difference in pattern shades from roll to roll, use TARKETT PVC flooring of the same batch and series for the same room; install TARKETT PVC covering consecutively in the ascending order by roll number. Batch, series and roll numbers are specified on the label.

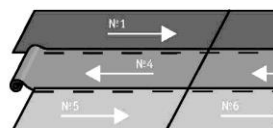
## 7 Cutting TARKETT PVC floor covering

7.1 Roll out TARKETT PVC floor covering upper side up on the prepared foundation that meets the requirements of this manual.

7.2 **Do not** drag a roll with the top side down! The friction against the floor surface may damage the top surface of the roll.

7.3 **Important:** If there are waves on the surface of a TARKETT PVC roll, heat the surface of the sheet up to 80°C using a hot air gun.

7.4 For large rooms that require installation of two or more sheets of TARKETT PVC floor covering, it is **recommended** to use the sheet cutting layout



where:

No. 1, No. 2, etc. is a number of a PVC floor covering roll;

→ is the direction for unrolling PVC floor covering rolls.

(see Fig. 1).

Figure 1

TARKETT PVC floor covering sheets must be installed with edges of each subsequent sheet overlapping the edges of the previous one. The width of such overlap should be (1–3) cm.

7.5 **Important:** All further operations for installing TARKETT PVC floor covering should be performed only if there are no top surface defects (stains, holes).

7.6 Perform the rough cutting of a rolled-out TARKETT PVC floor covering sheet leaving an extra margin on the sheet edge of at least 3 cm along the perimeter of the room, including jambs and door frames (i.e. the sheet edge should overlap on the wall at a height not exceeding the width of a skirting board).

7.7 A rolled-out TARKETT PVC floor covering sheet should be left to rest for at least two days at no less than +15°C.

7.8 **Attention!** In case of failure to fulfill the requirements in p. 8 *Transportation and storage* of this specification TU 22.23.15–088–54031669–2020, waves may form on the surface of TARKETT PVC floor covering which can remain on the surface after 2-day rest.

This flaw is eliminated if the requirements of p. 9 of this instruction are followed.

## 8 Choice of adhesive

8.1 Read the instructions for using the adhesive carefully.

8.2 Follow the recommendations of the adhesive manufacturer to calculate how much adhesive you need. The average amount of adhesive applied is 250–300 g/m<sup>2</sup>.

## 9 Installation of TARKETT PVC floor covering

Install TARKETT PVC floor covering following p. 8.19. of the Technical requirements and rules for floors.

9.1 Untuck a TARKETT PVC floor covering sheet and roll it into a roll with the upper side in according to the layout (see Fig. 2). Start folding the unrolled sheet into a roll from the last sheet.

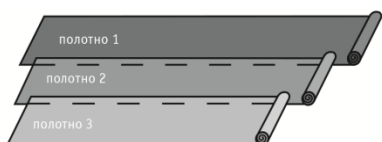


Figure 2

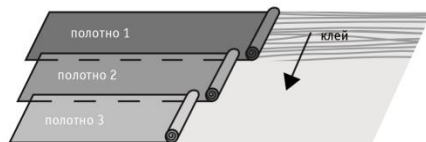


Figure 3

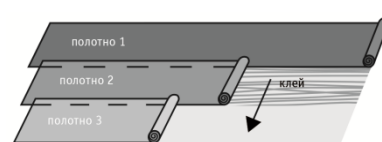


Figure 4

9.2 Evenly apply glue on the floor foundation using a notched trowel for glue following the recommendations of the glue manufacturer (see Fig. 3). The area for adhesive application depends on “open time” – a period from the time the adhesive is applied to the foundation to the time the surfaces are glued together under ambient conditions – that is, a period during which the adhesive preserves its adhesive properties.

**Important** TARKETT PVC floor covering must be glued to the underlying layer over its entire surface.

9.3 Now unroll a TARKETT PVC floor covering sheet upper side out on the foundation treated with adhesive. Start unfolding sheets on the glued foundation from the first sheet (see Fig. 4).

9.4 To ensure quality adhesion of a TARKETT PVC floor covering sheet to the foundation, make sure to spread the installed TARKETT PVC floor covering sheet flat with a cork plate and a smooth roller from the middle toward the edges to remove air bubbles from between the foundation and the covering sheet and remove waves from the surface in the following order:

Step 1: evenly from the middle to the edge of the sheet.

Step 2: evenly along the sheet.

9.5 After gluing the TARKETT PVC floor covering sheet, remove adhesive residues from its surface with a wet tissue or a sponge.

9.6 Similarly, perform the operation as per p. 9.2 to 9.5 for the next sheet.

**9.7 Important:** If “open time” for the adhesive expired while gluing the TARKETT PVC floor covering sheet to the foundation, fully remove the adhesive and then apply a new portion of it to the floor foundation.

9.8 Perform the “final” trimming on the sheet edge of the glued TARKETT PVC floor covering along the perimeter of the room, including jambs and door frames.

9.9 Where the sheets overlap, place the joint using a combi scribe, cut through along the guideway, trim the joint using a compressing hammer, and remove the cuttings.

Flatten the joint using a cork plate or a smooth roller and remove any glue residues from its surface using a wet cloth.

9.10 After finishing the installation, leave TARKETT PVC floor covering until glue dries up according to the recommendations of the glue manufacturer, but at least for 24 hours, then finish the joint by hot welding using TARKETT PVC welding cord following the corresponding instructions.

9.11 **Do not** install transverse joints of TARKETT PVC floor covering in places of intensive pedestrian traffic.

9.12 After completing all works for installation and edge joint welding of TARKETT PVC floor covering in places where it is adjacent to the wall and partitions, it should be fastened with skirting boards or fixed to the wall.

## 10 Preparation of installed TARKETT PVC floor covering for use

10.1 After finishing all construction and assembly work, manually remove all large construction waste from the surface.

10.2 Dry clean and sweep the TARKETT PVC floor covering with a mop or use a vacuum cleaner to remove dust and sand.

10.3 Wet clean the surface of the TARKETT PVC floor covering with a wet cloth, a flat microfiber mop or a floor-washing machine using a neutral detergent according to manufacturer instructions.

10.4 **Do not use** domestic powder or paste detergents containing abrasives or solvents.

10.5 Check the surface of the installed TARKETT PVC floor covering for defects such as scuff marks, change in color or dirt formed during the construction and assembly works.

10.6 Preparation of installed TARKETT PVC floor covering for use according to:

- Layout 1: the surface of the installed TARKETT PVC floor covering has no defects.

- Layout 2: the surface of the installed TARKETT PVC floor covering has defects.

### **Layout 1.**

Preparation of the installed flawless TARKETT PVC floor covering for use is performed in 3 stages:

Stage 1 - Wet cleaning:

- wash the entire surface of the floor with clean water using a flat micro fiber mop or a floor-washing machine;

- leave the surface of the floor to dry.

Stage 2 - Surface protection:

- apply protective polymeric mastic to the clean and dry surface of TARKETT PVC floor covering in one layer according to manufacturer instructions.

Stage 3 - Polymeric mastic polishing:

- polishing of the applied mastic surface is performed after full drying of polymeric mastic according to manufacturer instructions for mastic using a high-speed disc machine and pads (see Table 2).

### **Layout 2.**

Preparation of the installed TARKETT PVC floor covering with defects is performed in 3 stages:

Stage 1 - Recovery of the surface

a) In case there are defects such as dirt, perform the deep cleaning with the use of deep-cleaning detergent:

- apply the deep-cleaning detergent on the entire surface of TARKETT PVC floor covering according to manufacturer instructions;

- clean the surface using a single-disc rotary machine and pads (see Table 2).

Liquid residues from the surface are removed using a wet vacuum cleaner;

- wash the entire surface of the floor with clean water using a flat micro fiber mop or a floor-washing machine.

b) In case there are mechanical defects with/without dirt, perform the following operations:

- apply the deep-cleaning detergent with a high solvent (stripping) action on the entire surface of TARKETT PVC floor covering according to manufacturer instructions;

- grind the surface using a low-speed rotary machine and pads (see Table 2).

Liquid residues from the surface are removed using a wet vacuum cleaner;

- wash the entire surface of the floor with clean water using a flat micro fiber mop or a floor-washing machine.

Stage 2 - Surface protection:

- apply protective polymeric mastic to the clean and dry surface of TARKETT PVC floor covering in two layers according to manufacturer instructions.

Stage 3 - Polymeric mastic polishing:

- surface polishing of the applied mastic is performed after full drying of polymeric mastic according to manufacturer instructions for mastic using a high-speed disc machine and pads (see Table 2).

## **11 Maintenance of TARKETT PVC floor covering after installation**

Primary protection and daily cleaning preserve the product's appearance and extend its service life.

### **11.1 Primary Protection**

To keep the product clean, use:

- metal cleaning grates in your entrance areas;
- thick shaggy doormats;

- shaggy mats to collect and absorb residual dirt.

The total length of three mats must be at least 7 meters.

### 11.2 Everyday Cleaning

Everyday cleaning includes:

- dry cleaning with a flat microfiber mop or a vacuum cleaner;
- wet cleaning with a wet cloth, a flat microfiber mop, or a floor-washing machine using a detergent for everyday cleaning as recommended by the detergent manufacturer.

### 11.3 Periodic cleaning

Periodic cleaning must be performed if any surface defects of TARKETT PVC floor covering appear, according to Layout 2 of this manual.

## 12 Safety requirements for installation and maintenance of TARKETT PVC floor coverings

12.1. Installation and maintenance personnel must observe the requirements Labor Safety General requirements, as well as fire safety requirements and fire safety, know fire hazard requirements applicable to materials used, and fire safety measures that need to be observed when working with such materials.

12.2. Before starting to work with electric equipment and tools (vacuum cleaners, floor sweeping machines, etc.), the personnel must read and understand the manufacturer instructions and strictly observe safety rules. The electrical equipment and tools must be in good condition, wires must be undamaged and must not cross with other live wires.

12.3. When using handheld tools, the personnel must observe safety rules set by the tool manufacturer instructions.

12.4. When using materials (adhesive, detergents, etc.), the personnel must observe safety rules specified by the manufacturer of the material.

12.5 When performing installation and maintenance works on TARKETT PVC floor covering, the personnel must use safety workwear and personal protection equipment suitable for the work and complying with manufacturer recommendations for materials, electric equipment, electric tools, etc.