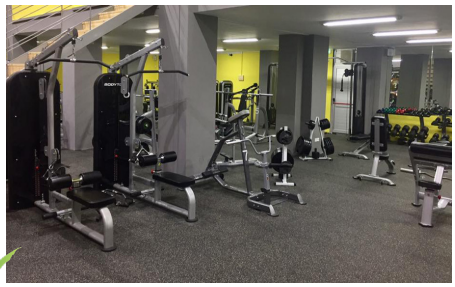
BEROLL SERIES INSTALLATION GUIDE

PREVIOUS CONSIDERATIONS

Rubber rolls are a common solution for Fitness centers where lighter weights are used. Either rolls are made from recycled SBR, new EPDM or a combination of both, a proper installation is imperative to ensure the best properties of your flooring. A wrong installation can mean quicker tear or even permanent damages.



This installation guide is intended to provide information for the proper installation of BEKA RUBBER'S BEROLL SERIES. These instructions are based on accepted industry standards and are provided for informational use only. BEKA RUBBER does not warrant any installation performed pursuant to these instructions or otherwise and specifically disclaims liability for any direct or indirect personal injury, property damage or other costs or losses resulting from installation. BEKA RUBBER products should be installed by qualified and experienced personnel.

BEKA RUBBER SBR Rolls are manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer's responsibility to inspect all products to ensure the correct style, thickness, color or spot any visual defects before beginning the installation. Any discrepancies must be reported immediately before beginning installation.

BEFORE INSTALLATION

1. Confirm that packing list and products received match.
2. Pallets with rolls are not stackable. Do not stack pallets with rolls one on top of the other.
3. Store rolls and adhesive in a clean and dry environment between 18^{o}C- 35^{o}C. Rolls can be stored below 18^{o}C as long as they are in a room where HVAC works.
4. Rolls should be protected against humidity before and after application and also during the curing.
5. Rubber rolls and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.
6. Rolls are stretched slightly when it is rolled at the factory. At the job site, the installer should allow all rolls to relax for a minimum of 1-2 hours before cutting any material or using adhesive.
7. Installation areas should be resistant to all air conditions and should be held in 18^{o}C homogenic temperature during 48 hours before, during and after installation.
8. Read carefully and entirely all product and subfloor preparation instructions before starting any installation.

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SUBFLOOR PREPARATION

a. **WARNING**: Particle board, chip board, Masonite, and lauan are not suitable underlayments.
b. Subfloor MUST be dry, clean, smooth, level, and structurally sound. It should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials,
c. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved cementitious based patching compound. Gypsum based patching and leveling compounds are not acceptable.
d. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with the adhesive. When gluing your flooring down, it is imperative that the sub-floor is free of any moisture.
e. Subfloor should be strong as structural and it must have a surface which is properly straight, without holes or cavities bigger than 2mm.

SUBFLOOR FOR INDOOR RUBBER ROLLS

Flat Concrete

Of all the potential surfaces for installing rubber, a flat concrete surface is probably the most ideal. Rubber rolls over flat concrete provide a consistent, long-lasting foundation, which creates great long-term quality. Rubber flooring requires a solid, ***level surface***, and concrete is nearly perfect for this need. However, you want to make sure that there is not a high level of ***moisture within or underneath the concrete, as this can seep upward, become trapped between the concrete and rubber and cause problems***.

Before installing rubber rolls on concrete, be sure that the subfloor has been entirely hardened and cured (about 45 days at least). Minimum pressure resistance of the concrete should be 3000 psi.

While rolled rubber is perfect for flat concrete slabs, it must be glued down if you are installing it over concrete. When placed without adhesive, it can shift and move underneath your foot, creating a potentially dangerous safety hazard. Therefore, it's better to use an adhesive to keep the rubber flooring in place.

WARNING: ***Concrete, floor patching compounds, toppings, and leveling compounds can contain free crystalline silica. Respirable crystalline silica (particles 1-10 micrometers) can be produced by cutting, sawing, grinding, or drilling. Respirable silica is classified by OSHA as an IA carcinogen and is known to cause silicosis and other respiratory diseases. Avoid actions that cause dust to become airborne. Use local or general ventilation, or protective equipment, to reduce exposure below applicable exposure limits.***

Ceramic Tile

Another good surface for rubber rolls is ceramic tiles, but because of the fragile nature of these materials, it may be necessary to include some sort of protection and subflooring. Even the best ceramic tiles can be brittle when used for heavy foot traffic or if weights are dropped, so it's possible to damage the tile if the rubber rolls used are too thin.

If you install rubber rolls over ceramic tile, you may notice some follow through. You could also see grout lines through the rubber flooring, especially if the grout is significantly deep in between the tiles. It is convenient a sub flooring or padding to protect the tiles or prevent lines or creases.

Flat Hardwood

If you want to cover hardwood, rubber flooring is actually a great choice. But there is a condition: rubber rolls over hardwood require a protective underlayment, especially for high-quality hardwood, so you can avoid staining the hardwood with the black color of the rolls.

While rubber rolls can be great for indoor hardwood floors, it is a poor option for covering outdoor wood decks.. BEROLL series are manufactured as INDOOR flooring.

Carpet

We do not recommend using rubber rolls over carpet. When you place rubber rolls over carpeting, the material will bunch up, creating tripping hazards and giving the surface an inconsistent, ugly appearance. Rubber can also cause damage to carpet, creating more problems for your flooring.

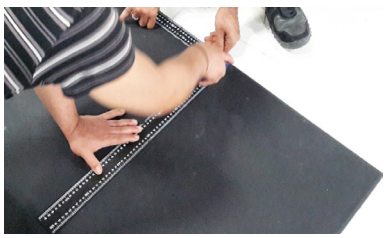
Rooftops & Outdoor Surfaces (Grass, Dirt, Rock, Etc.)

BEROLL series are designed and manufactured for INDOOR use. Many people want to turn their outdoor rooftop into a usable space. Assuming the structure has enough strength and integrity for foot traffic and weights, there are convenient options, but rubber rolls are generally not recommended.

Using rubber rolls over ''natural'' outdoor surfaces, such as grass, rock, and dirt is also not recommended.

INSTALLING RUBBER ROLLS

1.Loose lay out the rolls in the room as you would like them to look after a complete installation. Pay attention to color and patter design so they match as much as possible.



2. If cutting the rolls is necessary, accuracy in measurement is very important. Use a Straight Edge and a Utility Knife with a fresh blade. We recommend to cut the rolls in a place with enough light an space so appropriate cutting can be done. Protect the roll so the surface for adhesive stays clean.

3. Roll up the rolls at one end of the room.

4. BEKA RUBBER recommends a high quality two component polyurethane based adhesive. Always follow the instructions contained on the adhesive package to achieve desired results.

5. After mixing both components according to instructions, apply adhesive to the subfloor using a notched trowel. Take care not to spread more adhesive than can be covered by rolls within 15 minutes. The adhesive open time varies from manufacturer to manufacturer. Keep in mind that the average time is from 20 to 40 minutes at 16-20°C and 50% relative humidity.

Note: The open time of adhesive is affected by temperature and humidity. High temperatures and high humidity will cause the adhesive to set quickly. Low temperatures and low humidity will cause adhesive to cure at a slower rate. The installer should monitor on-site conditions and adjust open time accordingly.

6. Put down a 1 meter long light layer of adhesive (around 850-950gr/m) and unroll slowly 1 meter of the roll into the adhesive at a time.

7. Carefully lay the rubber roll into the wet adhesive. Do not allow the material to “flop” into place; this may cause air entrapment and bubbles beneath the flooring. Immediately roll the floor with a 45-50kg. roller to ensure proper transfer of adhesive. Repeat this step for every meter of roll length until the entire roll has been unrolled into its desired position.

NOTE: ***Never leave adhesive ridges or puddles, they will telegraph through the material. Do not allow the adhesive to cure on your hands or the flooring. Cured adhesive is very difficult to remove. We strongly suggest wearing gloves. Immediately wipe off excess adhesive off floor with a rag slightly dampened with mineral spirits. Follow the mineral spirits with a rag dampened with water to remove the mineral spirits. Use mineral spirits sparingly. Saturating the rubber with mineral spirits may cause the adhesive to be pushed too deeply into the pores of the rubber.***

If some seams are gapping it is possible to hold them together temporarily with blue painters tape. Tape MUST be removed after adhesive has developed a firm set which is approximately 2-3 hours. Allowing tape to remain longer than 2-3 hours or using aggressive tapes may result in adhesive residue.

In some instances, it may be necessary to weigh down the seam until the adhesive develops a firm set. Boxes of cove base or tile work well. Keep traffic off the floor for a minimum of 48 hours. Floor should be free from rolling loads for a minimum of 72 hours. Foot traffic and rolling loads can cause permanent indentations or debonding in the uncured adhesive.

It is very important the first seam is perfectly straight. Care should be taken to not over compress the seam. Over compressed seams will cause peaking.

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