INDELVAL
rubber flooring

Basic Installation Guide

Tile Rubber Floorings

Rev. 05/12

Overview:

This installation guide covers the general aspects related to the installation of Indelval rubber floorings. If you need further assistance please contact:

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Indelval rubber floorings:

- Are designed for high traffic in commercial environments, health care, education, public access buildings, industries, transport and sport areas. Such as: hospitals, clinics, schools, universities, offices, airports, museums, libraries, shops, laboratories, etc.
- Have been designed to be applied indoors as they are not fit for installation outdoors.
- Must be installed by a professional installer to guarantee adequate performance.

Handling of materials and storage:

- Follow the instructions on the labels of materials.
- Handle materials with care to prevent damage. Store all flooring products and accessories in a dry interior area, protected from the damage caused by temperature extremes, weather, and job site conditions.
- Store resilient sheet flooring rolls standing up, with capped end down. Store cartons of tile or stair treads flat and squarely on top of one another. Do not lie on edge.

Sub floor preparation:

- Job sites must be absolutely isolated from weather conditions. Allow other finishing trades (works in roofs, ceilings, windows, doors, painting and lighting) to complete their work before beginning the installation.
- Acclimatise the area to be installed to a stable condition of 20 ℃ ± 5 ℃ and 50% relative humidity, during installation and 72 hours after the job is concluded.
- Acclimatise materials for a minimum of 48 hours before installation.
- Areas subject to direct contact with sunlight (e.g. through doors or windows) must be covered with cardboard or a similar material during installation and 72 hours after the job is concluded so as not to affect bonding properties of the adhesive.
- Check labels on materials in order to verify that they match your PO. Do not install products from different batches.

Preparation over concrete screeds:

- **Surfaces to receive rubber floorings shall be permanently dry, clean, smooth, and structurally sound.**
- When preparing concrete screeds, applicable local regulations must be followed. If there is no valid regulation, the provisions of standard ASTM F 710 “Preparing Concrete Floors to Receive Resilient Flooring” will apply.
- Concrete screeds must have a minimum compressive strength of 3000 psi (210 kgf/cm^2, or 21 MPa) after 28 days.
- The concrete screeds on which the rubber flooring will be installed must be permanently dry, clean, smooth and structurally sound. They shall be free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening, or parting compounds, alkaline salts, excessive carbonation or laitence, mold, mildew, and other foreign matter that might prevent adhesive bond.
- Measure residual moisture of the concrete screed before installation. Use any of the following methods to determine acceptable values before installation:
  - ASTM F 2170 “In Situ Relative Humidity Test”: <75% HR
  - CM test: <2% (in concrete screeds)
- A vapor barrier (or vapor retarder) must be installed directly beneath the screed in order to avoid detachment caused by ascending moisture.
- The screeds shall be smooth in order to avoid irregularities, roughness or any other defect from being transferred (becoming visible) onto the surface of the installed rubber flooring

- Before installation, debris must be removed from the surface using a broom or a vacuum cleaner.
- When removing residual adhesive, paint or any element attached to the surface, do not use chemical methods. Use abrasive methods, instead, such as scarifying, polishing, sandblasting, etc. Rubber floorings cannot be installed over concrete screeds with residual asphalt adhesive.
- Surface cracks, cuts, indentations, control joints or any other type of non-moving joint must be filled or smoothed with patching compound.
- Caution: Expansion joints or any other moving joint on the surface of concrete shall not be filled with patching compound or covered with resilient flooring. Use an expansion joint covering system.
- Concrete screeds must be porous. In order to test this, place a drop of water on the surface of the screed. It should be absorbed by the screed within 5 minutes in order to be considered porous. If the screed is not porous, please contact Indelval's Technical Department
- In the event of application of a leveling or patching compound follow manufacturer instructions.
- Do bonding tests (1 every 100 m^2). Evaluate after 72 hours in order to determine if the material is well bonded to the substrate, if the screed was well prepared to receive the flooring or to detect any adverse condition. Installation will not begin unless the result of the test is satisfactory.
- For installation on other types of subfloors or in refurbishing jobs, see the specific guide. Download from www.indelval.com

Installation of rubber tiles:

- Use a broom or vacuum cleaner to clean the entire surface that will receive the flooring.
- Draw two starting lines, perpendicular to each other, based on the room squaring.
- Dry lay (without adhesive) tiles to check the layout and design with the flooring material which will be installed that day.
- Follow the arrows on the tiles, indicating tile direction.
    - Rubber studded tiles have an arrow on the top in one corner.
    - Smooth tiles have an arrow at the back of the tile.
- After dry laying is done, uplift a workable area. Vacuum the subfloor and the back of the flooring to remove dust or any debris.

Bonding:

- Use the adhesive according to the Adhesive Recommendation Table.
- Spread adhesive evenly using the recommended notched trowel. Do not allow any puddles or lumps of adhesive.
- Be sure that trowel notches are as recommended and that they are kept clean during the installation process.
- We do not recommend re-notching a trowel by hand. Replace them as necessary to insure proper coverage.
- For porous or rough substrates the tiles may be placed into adhesive after 10-20 minutes of open time.
- Work off the flooring to prevent adhesive from oozing, shifting of material, or indentation from adhesive displacement. If you must work on top of the material, use large kneeling boards.
- Check that you have adhesive transfer before continuing.
- Lay tiles without stress and do not force seams together.
- Immediately roll the flooring in both directions with a 40-50 kg 3-section roller ensuring complete coverage of adhesive on the back of the flooring. Make sure the adhesive ridges are flattened into a uniform film thickness. This is important to provide optimal indentation resistance.
- Wait a minimum of 6-12 hours for foot traffic.
- For all applications, wait 48 hours for rolling traffic or point loads.

Final Care:

- Once installation is complete, protect finished sectors with corrugated cardboard.
- Do final cleaning according to Indelval's maintenance guide.

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Adhesive recommendation:

Brand:	Contact adhesive	Dispersion adhesive	Reaction adhesive
Neoval	Neoval AD	Neoval DS	Neoval R
Mapei	Adesilex LP	Ultrabond ECO VS 90	Ultrabond ECO 571 2K
Thomsit	Thomsit K 182	Thomsit K 150	Thomsit R 710
Uzin	UZIN GN 222	UZIN KE 66	UZIN KR 430

Trowel type:			Contact adhesive	Dispersion adhesive	Reaction adhesive
Sheet system					
Geo plus I Geo tx	2,0 mm	HG		A2	
Chronos plus I Chronos tx	2,0 mm	HG		A2	
Ecoval plus I Ecoval tx	2,0 mm	HG		A2	
Indelcol plus	2,0 mm	HG		A2	
Indelcol plus	3,0 mm	DB		A2	
Geo plus I Geo tx	3,0 mm	HG		A2	
Chronos plus I Chronos tx	3,0 mm	HG		A2	
Geo plus I Geo tx	3,0 mm	DB		A2	
Chronos plus I Chronos tx	3,0 mm	DB		A2	
Tile system					
Geo hm	3,5 mm	HG		B1[(1)]	A2/B1
Viva hm	3,5 mm	HG		B1[(1)]	A2/B1
Cerama	3,0 mm	HG	A4		
Textura	3,0 mm	HG		B1[(1)]	A2/B1
Clasica	3,0 / 4,0 mm	HG		B1[(1)] (3,0 mm)	A2/B1 (4,0 mm)
Leganti	3,0 / 4,0 mm	HG		B1[(1)] (3,0 mm)	A2/B1 (4,0 mm)
Deco	3,2 mm	HG	A4		
Hm	2,7 mm	HG		B1	
Cerama	3,0 mm	DB			
Textura	3,0 mm	DB		B1[(1)]	A2/B1
Clasica	3,0 / 4,0 mm	DB		B1[(1)] (3,0 mm)	A2/B1 (4,0 mm)
Leganti	3,0 / 4,0 mm	DB		B1[(1)] (3,0 mm)	A2/B1 (4,0 mm)
Deco	4,0 mm	DB	A4		
Hm	2,7 mm	DB		B1	
Stairtread system					
Deco tread	4,0 mm	HG	A4		
Cerama tread	4,0 mm	HG	A4		
Special applications					
M2000 conductive	2,5 / 3,0 mm	DB		B1[(1)]	A2/B1
Ecosport tx	4,0 / 7,0 mm	DB			B1
Guia	7,0 mm	HG			B1
Geo tx SE	7,0 mm	DB	-	-	-
Ecosport tx SE	7,0 mm	DB	-	-	-
Chronos tx SE	7,0 mm	DB	-	-	-

x[(1)]: In places with heavy rolling load, use reaction adhesive only.

-: No adhesive required.