

TW!STi

Performance & Design on Woven Vinyl Flooring

INSTALLATION MANUAL
04/2025

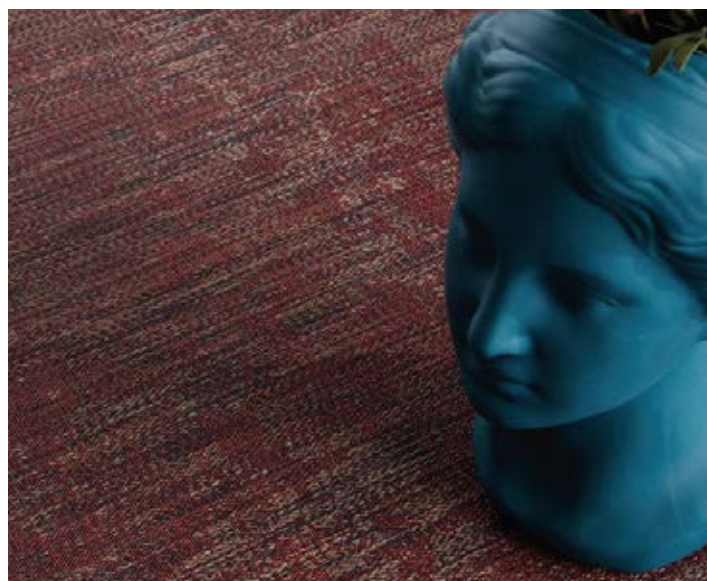
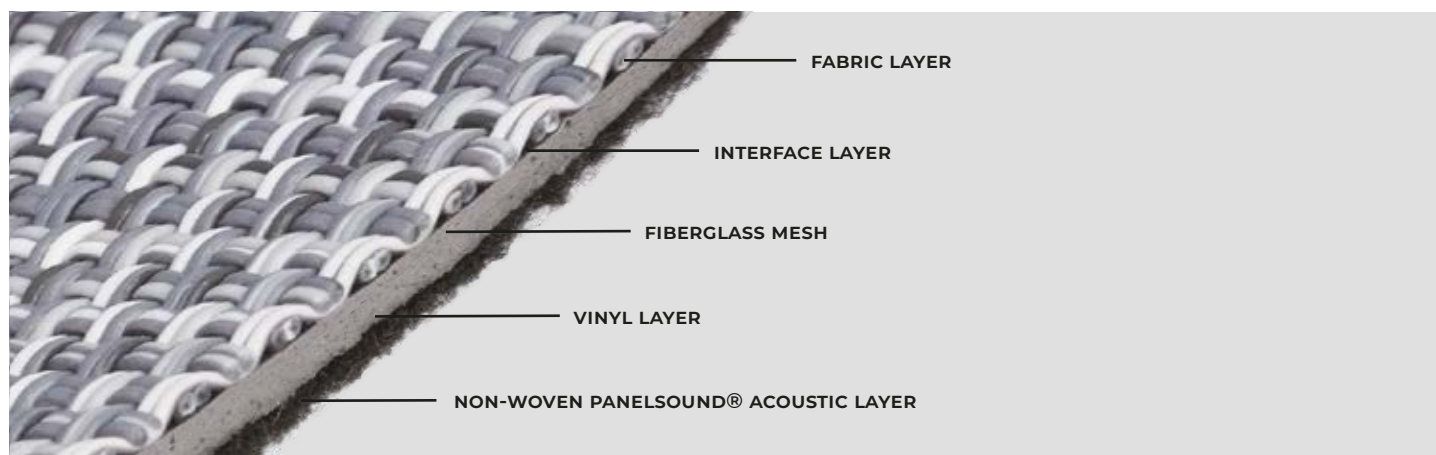
www.twisti.net

Grupo  Mitera

INFORMATION

- Twisti is an **European Brand** designed by a team **with over 20 years of experience** in the woven vinyl flooring market.
- With **the best technical performance and combined with the best design**, Twisti convey comfort and exclusivity to the most diverse types of projects.
- Twisti is an **eco-conscious product**.
- Twisti reaches an extraordinary value with respect to the reuse of recycled material, **superior to 50% of the total composition**.
- Rated as Class 33, Twisti it is suitable for heavy commercial use.
- Thanks to its composition and acoustic felt - PanelSound layer, Twisti **is at the top of its category in terms of reducing sound impact by up to 20dB** and reducing noise from pedestrian traffic by up to 70%.
- Although it must be mounted by a professional, Twisti is easy to install and maintain.
- Twisti is available in 500x500 mm tiles and 2 m x 20 m rolls.

www.twisti.net



TECHNICAL FEATURES

Material Designation: Woven Vinyl Flooring

Composition: Finishing woven vinyl top layer ; Interface layer ; Dimension stability fiberglass layer ; Vinyl support layer ; Acoustic PET Felt PanelSound® layer

Technical Features		Rolls & Tiles
Classification	EN 685	Class 33, heavy commercial use
 Weight	ISO 8543	± 3,5 Kg/m ²
 Thickness	ISO 1765	3,50 - 4,20 mm
 Roll Length	EN 426	20 m *
 Roll Width	EN 426	2 m
 Tile Dimension	EN 994	500 x 500 mm
 Dimensional Stability	ISO 2551	< 0,25%
 Curvature	EN 434	< 2 mm
 Caster Chair	EN 985	Continuous use
 Body Voltage	ISO 1815	≤ 2,0KV
 Thermal Resistance	ISO 8302	Suitable for underfloor heating
 Color fastness to light	ISO 105-802	> 6
 Anti-slip property	EN 13893	> 0,3
 Reaction to fire	EN 13501-1	Bfl-s1
 Impact sound reduction	ISO 10140	Up to 20 dB
 Walking noise reduction	EPLF 0210 29-3	Up to 70%
 Acoustical absorption	ISO 354	aw=0,15
Smoke Density	ASTM E662	< 450
REACH test	1907/2006	NO. (6614)008-1228-R2
Formaldehyde emission	EN 717-1:2004	E1
VOC	EN 16516	A+
 CE Certification	EN 14041 EN 15114	NO. EC. 1282.OA140305.AYD0738
ISO 9001 Certification	ISO 9001:2008	NO. 04514Q20096R0S
ISO 14001 Certification	ISO 14001:2004	NO. 04514E20029R0S

From different production batches, there may occur differences on the color tone of the material. For a same area it is recommended to use material from the same production batch. These differences are not a reason for a complaint and not accepted as a claim or covered by our warranty.

TWISTI final product is obtained by weaving technique, the absolute perpendicularity on the weaving vinyl flooring does not exist, so warps on the pattern are possible to occur, also small flaws in the weave are possible from the nature of the material production and not accepted as a claim. These occurrences give the authentic appearance of a textile product.

NOTES:

* Rolls with a maximum length of 20 m. For production reasons, they may be supplied in shorter lengths.

TWISTI flooring, despite being easy to install, must be laid by a professional qualified to carry out the work. Any installation procedure not specified in this manual automatically voids the TWISTI warranty.

1. MATERIAL STORAGE AND HANDLING

The material must be stored on a flat surface, in a dry and ventilated place, protected from atmosphere elements and ideally with a temperature between 18°C and 25°C.

Always handle the material with due care to avoid damaging it.

The material must be handled by one or two people, depending on the weight involved.

2. BEFORE THE MATERIAL INSTALLATION

The material must be placed at the application site 24 hours before installation. Ideally it should be installed with an ambient temperature similar to that expected for the space in normal use, between 18°C and 25°C.

Before applying, carefully check the material and make sure there are no visible effects. If there is a defect, never cut or apply the material, if it is cut or applied it will be not accepted as a complaint. The procedure in case of a visible defect should be immediate contact with your supplier.

Before mounting, read this installation manual carefully and create a plan for installation.

3. INSTALLATION TIMING

The application of TWISTI must be carried out as the last work of a contract.

Further work could irreparably damage the material.

4. PREPARATION OF THE PRIMARY FLOOR TO RECEIVE THE TWISTI

The primary floor must be perfectly flat, without any imperfections, as this can be transmitted to the TWISTI surface. Must be equally clean, free from grease, oil or dust.

Remove all residues from any previous coverings, repair the floor if necessary.

Apply a leveling compound following the manufacturer's instructions. The leveling compound must be suitable for each type of primary floor.

After applying the leveling compound, if necessary, sand the surface and remove all dirt and dust. Make sure it is dry and in accordance with the manufacturer's specifications before applying TWISTI.

To apply TWISTI, the primary floor must have a temperature above 15°C and the room air between 18°C and 25°C with a relative humidity between 50% and 75%.

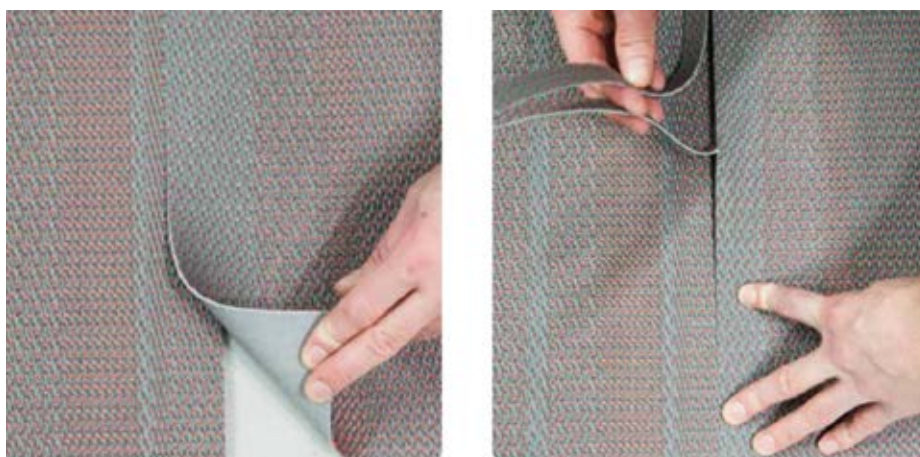
5. INSTALLATION ROLLS

Rolls are installed using a permanent adhesive. Ideally apply rolls from the same production batch to minimize shade variations, which are possible from production to production. After visually checking the material, extend the roll and cut it with a good quality cutter, always before applying the glue.

All the rolls must be placed in the same pattern direction. In some cases the rolls may be numbered, apply the rolls following the numbering order.

At the junction of the rolls panels, the joints must be overlapped (see the image) and then, using a ruler, make a double cut, which will result in a perfect cut. Remove the excess (see the image).

In the case of Fishbone, Fantasy or similar references, for a logical follow-up, the overlapping and cutting must be done according to the pattern.



Sometimes after cutting and gluing, some fiber ends may be visible at the joints, these tend to disappear naturally or if you prefer, use a clean, slightly damp cloth to rub over the fibers, breaking them removing them.

The glue must be applied according to the manufacturer's specifications. Leave the ends of the rolls, where the joints will be, for the final of the gluing, fold these ends back and apply the glue on the created space and then glue it. Use a pressure roller to ensure a good gluing.

6. RECOMMENDED GLUES - PERMANENT ADHESIVE

- Soudal LVT 120FT Special Patterns
- Bostik Power Elastic
- Mapei Ultrabond ECO 560
- Mapei Ultrabond ECO V4 SO
- Uzin KE 2000
- FBall Styccobond F48 Plus

For steps and vertical applications.
(The use of profiles is recommended for the edges).

Mapei Ultrabond 575
Mapei Ultrabond Aqua-Contact
Uzin KE 430

7. AFTER INSTALLATION

Ensure that the gluing is properly carried out, respecting the curing time before using the floor. Then clean and protect the surface of TWISTI until the delivery of the work for greater longevity of TWISTI, all furniture bases / feet must be protected with plastic protection.

Avoid rubber protections, as they can migrate and contaminate the floor. Use a polycarbonate protective plate or similar under office caster chairs.

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Remove all residues from any previous coverings, repair the floor if necessary.

Apply a leveling compound following the manufacturer's instructions. The leveling compound must be suitable for each type of primary floor.

After applying the leveling compound, if necessary, sand the surface and remove all dirt and dust. Make sure it is dry and in accordance with the manufacturer's specifications before applying TWISTI.

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5. RECOMMENDED GLUES - COLAGEM REPOSICIONÁVEL

- Soudal DS-11 CT Carpet Tile
- Mapei Ultrabond ECO Fix
- Mapei Ultrabond ECO 810
- Mapei Ultrabond 3CO 811
- Thomsit K145
- Uzin U2100
- FBall Stuccobond F41
- Collak WA-25

For steps.

(The use of profiles is recommended for the edges).

Mapei Adesilex G20

Uzin KR 430

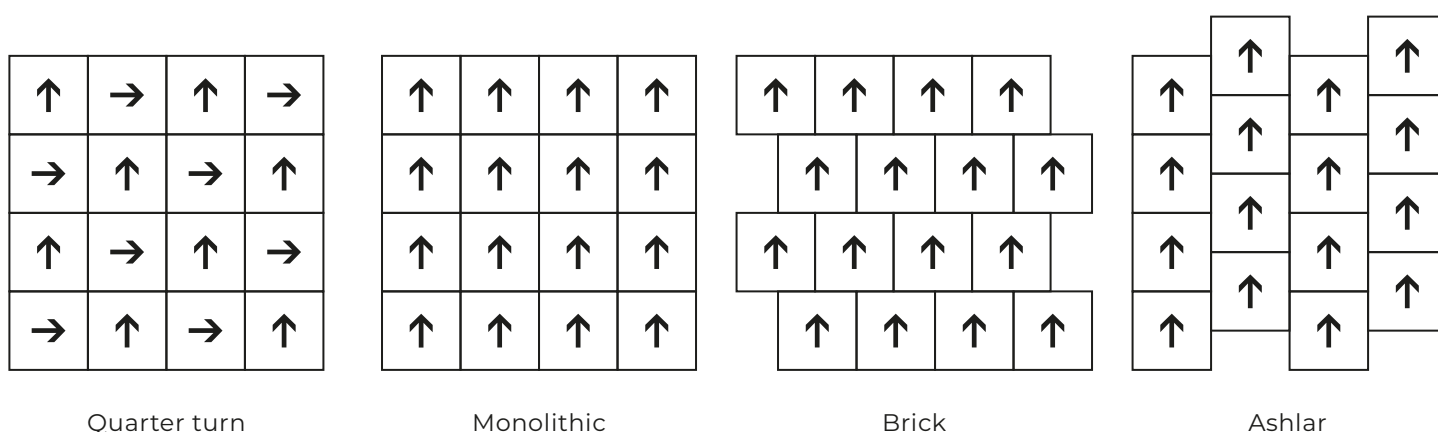
Mapei Ultrabond G21

6. INSTALLATION TILES

Pay special attention to the direction of the pattern of the tiles the desired final effect according to the images below.

To help, the tiles may also have an arrow on the back indicating the direction of the pattern, the tiles can be placed in different options, resulting in a different final effect for each option. Can be placed in quarter turn, monolithic and ashlar.

The option choice will be the one that best suits the project and is up to the designer.

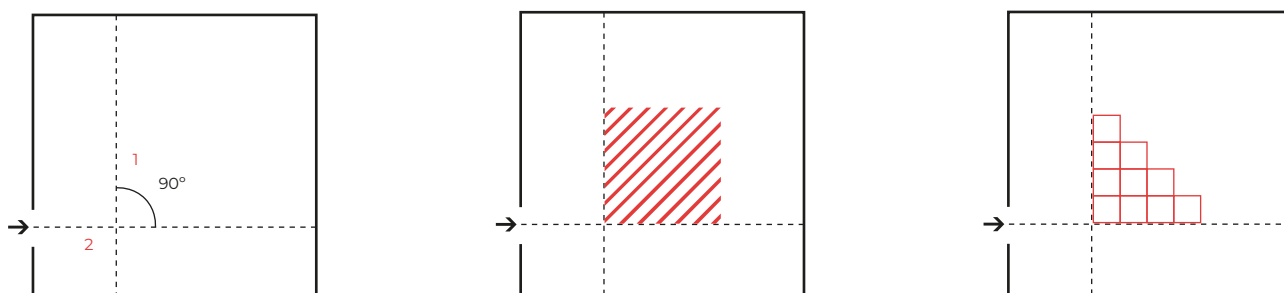


To minimize possible differences in production tone, as much as possible apply batches of the same production in each area.

7. POSITIONING OF THE TILES

Draw two axes on the primary floor, the first perpendicular to the direction of the entrance door. Make sure that this first axes is also parallel to the wall where the door is. See the image.

Before gluing, place the tiles first on the primary floor, according to the pattern and option chosen, (check the visual result). Start this placement at the meeting point of the two axes, according to the image, follow with the other tiles along the axes and from the center to the wall, check the visual effect, if ok proceed to the gluing.



8. GLUING

Remove the tiles (without losing the sense of their position) from the area near the intersection of the axes (red color on the image) and start applying the glue in that area, following the producer specifications. Then replace the tiles on the glue and in the initially defined position. Make sure that they stay perfectly together and aligned. Use a roller to press the tiles so they are well fixed to the floor, knowing however that this gluing allows the tiles to be repositioned.

If small fibers ends are visible at the end of application and gluing, proceed as indicated on the instructions for rolls, in point 5.



9. AFTER APPLICATION

Ensure that the gluing is properly carried out, respecting the curing times before using the floor. The proceed to completely clean of TWISTI and protecting it with cardboard or other suitable material. Until the installation is delivered.

For greater longevity of TWISTI, all furniture base/feet must be protected with plastic protections. Avoid rubben contact, as this can migrate and cintaminate the floor. Use a protective plate under office chairs.

CLEANING AND MAINTENANCE INFORMATION

MAINTENANCE

To maintain its appearance, TWISTI needs to be cleaned regularly..

REGULAR CLEANING

Vacuum TWISTI regularly, such as carpet or a rug.

For a good result use a vacuum cleaner with vertically rotation brushes. Never use a vacuum cleaner with horizontally rotation brushes as this could damage TWISTI.

DEEP CLEANING

This cleaning must be done once or more times a year, depending in the use of TWISTI.

For this cleaning, use an injection/extraction machine with vertical rotating brushes.

There is a wide range of options on the market, from low-cost machines for home use to professional machines with greater capacity.

These machines clean and dry the floor very effectively.



Vertical rotation
brushes *[You can use it]*



Horizontal rotation
brushes *[Never use it]*



Injection/extraction
vertical rotation
brushes *[You can use it]*

DIFFICULT STAINS

Act immediately to prevent the stain from spreading and drying.

If necessary use a spoon to remove any remains or traces of the contaminant (as like for food remains).

Spray the stain with water and a little neutral detergent, wait about 5 minutes and vacuum with a vacuum cleaner suitable for liquids or an injection / extraction machine. If necessary, repeat the operation.

FOR SPECIFIC STAINS

Cold drinks (wines, juices...): use clean water.

Hot drinks (coffee, tea...): use hot water.

Food: water with and neutral detergent.

Ink: water or turpentine.

Oils and fats: hot water with neutral detergent.

Blood: a salt solution or a diluted ammonia.

Plaster: hot water and a little of vinegar.

Red fruits: water.

Shoe sole remains: rub with a clean and dry cloth.

Chewing gum: hot steam or antifreeze spray.

Grupo Mitera

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PRESCRIÇÃO TÉCNICA



Nome do revestimento

Feltro de suporte em PET

COLAGEM REPOSICIONÁVEL PARA MOSAICOS TWISTI

- Assegurar que o pavimento está limpo, regularizado e consistente;
- Aplicar a cola **DS-11CT Carpet Tile** no pavimento, com um rolo, espátula dentada ou pincel. A quantidade de cola tem influência direta na força de adesão final da cola. Em média o consumo será entre 50 e 200 gr/m²
- Para obter a colagem reposicionável, deixar secar entre 15 e 60 minutos, dependendo da porosidade do suporte e do estado do tempo.

NOTA: A aplicação dos mosaicos de imediato, sem secagem da cola, a aplicação resultará próxima de uma colagem definitiva.



COLAGEM DEFINITIVA PARA ROLOS TWISTI

- Assegurar que o pavimento está limpo, regularizado e consistente;
- Aplicar a cola **LVT 120FT Special Patterns** no pavimento com espátula dentada. O consumo em média rondará os 350 a 450 gr/m²
- Aguardar uma secagem mínima de 10 minutos e máxima de aproximadamente 30 minutos.

Nota: o tempo aberto da cola vai até 120 minutos, mas só deverá ser utilizado caso haja necessidade desse tempo, sob recomendação específica.

- Aplicar TWISTI pavimento, pressionando com rolo profissional para pavimentos



Pedro Bizarro (Engº.)

STEP – Soudal Technical Experts Portugal

Nota: documento emitido eletronicamente, razão pela qual não é assinado à mão.

NOTA: As informações técnicas – verbais, escritas ou por ensaio – baseiam-se no conhecimento e experiência atuais, não envolvendo qualquer garantia. Sendo a aplicação feita fora do controlo do fabricante, não se assume qualquer responsabilidade por eventuais anomalias decorrentes da utilização incorreta dos produtos.

DS-11CT

Revisão: 23-02-2021

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Especificações

Base	Acrílico
Consistência	Fluído
Sistema de cura	Secagem física
Densidade	1,02 g/ml
Conteúdo sólido total	65 %
Resistência à temperatura**	-40°C a +120°C
Pode ser carregado após	Imediatamente após a colocação
Temperatura de aplicação	5 °C → 30 °C
Tempo de secagem (23°C e 50% H.R.)	15 - 60 min
Consumo (*)	50 - 150 g/m²

* Estes valores podem variar em função de fatores ambientais, tais como temperatura, humidade e tipo de substratos. ** A informação refere-se ao produto totalmente curado.

Descrição do produto

DS-11CT é uma cola em dispersão pronta a usar, fácil de espalhar. Uma vez totalmente seca, forma uma camada antiderrapante constante para os ladrilhos de alcatifa.

Propriedades

- Fácil manuseamento
- Qualidade profissional
- Longo tempo de abertura.
- Isento de solventes
- Longo tempo de abertura

Aplicações

- Colagem de ladrilhos de alcatifa com reverso de PVC
- Colagem de ladrilhos de alcatifa com reverso de poliuretano

Embalagem

Cor: branco, transparente depois de seco
Embalagem: 10 kg

Prazo de validade

Pelo menos 24 meses na embalagem fechada, conservada em local seco, com temperaturas entre +5°C e +25°C.

Substratos

Substratos: Todos os substratos de construção habituais, sólidos e porosos.

Natureza: DS-11CT deve ser aplicado numa superfície rígida, limpa, permanentemente seca, sem pó, nem gorduras, e que não contenha partes soltas, pintura, cera, óleo ou outros contaminantes. Irregularidades, como relevos de betão ou restos de antigos adesivos, podem afetar negativamente a aderência. Estes devem ser, preferencialmente, removidos mecanicamente, por exemplo com lixa ou jato.

Preparação da superfície: Certifique-se de que a superfície esta sólida. Lixar a superfície até obter uma camada sólida (obrigatório para superfícies de anidrite), certificar-se também de que todas as impurezas (como resíduos de adesivos antigos) são removidos.

Se houver dúvidas quanto a pó, areia ou superfícies queimadas, pode ser feito um teste de raspagem.

Se o resultado não for satisfatório, recomenda-se a aplicação de Soudal WBPR-21. Para superfícies de forte absorção, recomenda-se a utilização do primário Soudal WBPR-11P. Se o pavimento não estiver nivelado, precisa de ser tratado com uma massa auto-nivelante como Soudal VE40.

DS-11CT tem excelente aderência sobre a maioria dos substratos. Recomendamos um teste de compatibilidade preliminar.

Observação: Esta ficha de dados técnicos substitui as versões anteriores. As diretivas presentes nesta documentação são o resultado dos nossos ensaios e da nossa experiência, e são submetidas de boa-fé. Dada a diversidade de materiais e substratos existentes, e ao grande número de possíveis aplicações, que estão fora do nosso controle, não podemos aceitar qualquer responsabilidade pelos resultados obtidos. Uma vez que o projeto, a qualidade do substrato e as condições de aplicação estão fora do nosso controle, não são aceites quaisquer obrigações sob esta publicação. Em qualquer situação, recomendamos a realização de experiências preliminares. Soudal reserva-se o direito de modificar produtos sem aviso prévio.

DS-11CT

Revisão: 23-02-2021

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Método de aplicação

Método de aplicação: Aplique o adesivo ao substrato utilizando um rolo de pele de cordeiro, uma espátula dentada ou um pincel. Aguardar até que a camada adesiva esteja seca, aplicar os ladrilhos de alcatifa sobre o adesivo seco.

Limpeza: Antes da cura, DS-11CT pode ser removido com água das ferramentas e dos substratos. Uma vez curado, DS-11CT apenas pode ser removido mecanicamente. Reparação: Com o mesmo material

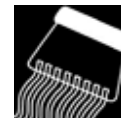
Recomendações de Saúde e de Segurança

Respeite as normas habituais de higiene no trabalho. Consulte a etiqueta e a ficha de dados de segurança para mais informação.

Observações

- O DS-11CT deve ser armazenado entre + 10 ° e + 25 °C. Desta forma, pode ser usado imediatamente.
- DS-11CT não deve ser diluído.
- O adesivo seco constitui uma camada antiderrapante.
- Os ladrilhos de alcatifa podem ser removidos em qualquer altura.
- Se os ladrilhos de alcatifa forem colocados de imediato, a colagem será permanente e os ladrilhos não serão removíveis.
- Adequado para aquecimento de pisos por chão radiante.

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LVT 120FT

Revision: 1/08/2022

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Technical data

Basis	Acrylic dispersion
Consistency	Paste
Curing system	Physical drying
Density	Ca. 1,23 g/ml
Total solid content	Ca. 75 %
Temperature resistance**	-20°C to +80°C (cured)
Application temperature (text)	Ideal between 15-25°C, RH 45-60% Min. +10°C, max +30°C
Evaporation time (=minimum time before bonding)	Ca. 10 min
Open time (23°C, 55% RV)*	Approx. 120 min
Drying time (23°C and 50% R.H.)	Load bearing: ca 24h, fully cured: ca 72h
Tools	Trowel A2
Consumption*	400 - 500 g/m ²

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

LVT 120FT is a universal, ready to use, solvent-free dispersion adhesive for bonding of elastic flooring materials to flat, absorbant surfaces. Because of the long open time, this adhesive is particularly suitable for fishbone & other patterns.

Properties

- Ready for use paste
- Complies to ISO 22636: Adhesives for floorings
- Long open time
- Immediately walkable
- Heatresistant, also with underfloor heating
- For indoor use

Applications

- LVT flooring
- PVC floor coverings in sheets and tiles
- PVC floorings with patterns like fishbone, ...
- Cushion vinyl floors

Packaging

Colour: beige

Packaging: 13 kg

Shelf life

12 months unopened and stored in dry and cool conditions (Between 5 and 25 °C), After use, close the packaging with the original cap. Store frost free

Substrates

Substrates: all common porous building substrates, concrete, screed floor, brick, stone, stucco, wood

Nature: Surfaces should be dry, level, solid and free of dust, residues of previously used adhesives, grease and oils.

Surface preparation: Shut down underfloor heating according to the correct procedures. For renovations, the existing, flexible flooring (carpet, linoleum, cushion vinyl, rubber, PVC, ...) has to be removed. Make sure there is a pure surface. When renovating all old adhesive residue has to be removed mechanically. Make sure the surface is solid. Sand the surface until a solid layer is achieved (mandatory for anhydrite surfaces), also make sure that all impurities (like old adhesive residues) are removed.

If there are doubts for powder, sand or burned surfaces, a scratch test can be done.

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

LVT 120FT

Revision: 1/08/2022

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When a weak result is obtained, it's recommended to apply Soudal WBPR-21. Check the flatness of the surface. In general we should place a leveling layer, such as Soudal VE90. Abrupt roughness, cracks, etc are not acceptable. For strong absorbing surfaces, it is recommended to use the Soudal WBPR-11P primer. Right before applying the flooring, vacuum the surface thoroughly. Before applying the flooring, it should be acclimatized to the surroundings (15°C-28°C):

- Ensure that during the application the temperature and humidity of the flooring material, the adhesive, the surface and the surrounding remains stable.
- Walls and floors have to be completely dry prior to application of the adhesive. Do not plaster or paint in the surroundings during the period after application to ensure a stable environment.

We recommend a preliminary adhesion test on any substrate.

Application method

Application method: Draw starting axes and determine the pattern. Stir up the adhesive before use. Apply LVT 120FT with the correct trowel on the sufficient surface (see technical data). Immediately rub, press or roll the flooring well into the whole surface to achieve a good adhesive transfer. Don't apply more adhesive than you can process within 120 minutes. Leave open for 10 to 15 minutes, then insert the flooring material into the adhesive. Make sure the bond is tension free and there are no air pockets between the adhesive layer and the flooring material. Consult the installation method and technical data sheet of the flooring. Follow the instructions of the producer for applying the floor. Restart underfloor heating (according to the correct procedure) at the earliest 48 hours after the application.

Cleaning: Cured LVT 120FT can only be removed mechanically.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks

- Always consult the installation method and technical data sheet of the flooring manufacturer. Follow the instructions of the producer for applying the floor.
- Working with the correct primers will always give you a better adhesion on the surface, will give you a lower consumption of the adhesive and will ease the applying of the adhesive. For LVT 120FT the primer Soudal WBPR-11P can always be used on a cement based subfloor (screed) or on a leveling compound.
- The minimal temperature of the surface has to be at least +10°C.
- Do not use in damp areas or applications where continuous water immersion is possible.

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