

# Soltherm EWI system on EPS with traditional brick slips & stone slips



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## INTRODUCTION

This application guide is designed for use by qualified and Soltherm registered installers, who already have an extensive knowledge of external wall insulation (EWI) install techniques.

Soltherm Deco P BriQ system utilises EPS grey or white insulation slab. The system achieves a fire rating B-s1,d0. Soltherm Deco systems provide designers with unparalleled architectural freedom through a diverse range of finishes, textures and colours. All systems have low water absorbency, which protects against the penetration of wind-driven rain, dirt and destructive chemicals within the atmosphere, also preventing failure via freeze-thaw processes.

Of equal importance is mechanical durability and resistance to algae, allowing the system to protect the system from day to day damage with a high level of impact resistance offered.

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				Bucket     Pointing trowel, jointer or a rubber edge spatula	
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			The design metric distance is a set of the photon set of the photons to make photon set of the photon set of photon	Relative humidity at application and curing: up to 82%	
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			Semi-dry admined files Proper the instance so that generally considering the last the protect between this way in any dissipant firmly into the justice making our that the justice and tay black, such that our with a justice protect first version, then harmonical process that them the just of the weak and first version.	Low, arts are provided and and are seen and and are been and are be	
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			ours that the junct are fully filled. Support out with a pointing trawel- find version, then horizontal joint. Start from the top of the wall and	Optimum cast thickness: 20-15 mm	

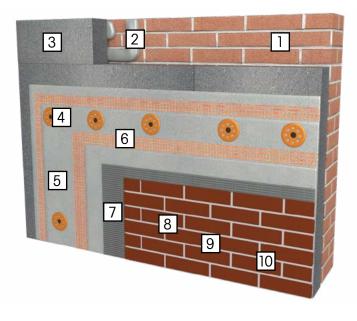
#### Important information

Prior to commencing with the installation of the Soltherm Deco P BriQ systems , the Soltherm Registered Contractor is required to ensure the following;

- The installation team have had Soltherm Deco P BriQ training.
- A non-draft project specification has been issued by Soltherm with fixing pattern and any unique detailing requirements.
- Datasheets of all the Soltherm materials are readily available and guidelines contained within are adhered to in relation to application, preparation and health and safety (H&S).
- The Contracts Administrator has confirmed that the substrate is structurally suitable to carry the EWI system and any structural repairs deemed necessary have been completed to required specification.
- Scaffold and/or access is in accordance with all H&S requirements.
- Enabling works have been completed to a satisfactory standard.
- Windows, walkways, driveways and other features are protected from damage.
- Requirement for mechanical fixing pull out tests
- Wind load calculations
- Define expansion joints, if required. The purpose of expansion joints is to mitigate stress, particularly in areas with rectangular openings in the facade, geometrically varied facade areas, or when one side of a field is significantly longer than the adjacent side. Expansion joints also serve to compensate for thermal stresses in EWI system. It is recommended that the brcik slips finish surface be divided into smaller fields, no larger than 36 square meters, preferably squareshaped, with sides no longer than 6 meters.
- Before any product application can proceed, fire barriers must be fitted as required e.g. at compartment wall locations, etc. The location of all fire barriers should be agreed with the Architect/ and or a suitably qualified fire / chartered engineer. The location of fire breaks should be specified by the Architect or Fire consultant on a project specific basis.



## THE SYSTEM



### **DECO P BRIQ**

#### For application to masonry and concrete substartes

#### 1. Substrate

Soltherm Deco P BriQ system must be utilised on masonry and concrete substrates. The substrates must be clean, dry and primed prior to the application of the system.

#### 2. SOLTHERM SA

A1 Insulation adhesive designed specifically for use with mineral wool insulation EPS grey and white insulation.

#### 3. EPS insulation

Graphite-enhanced (grey) EPS insulation boards or white EPS boards may be used. EPS UHD 200 may be also used below DPC level.

#### 4. Mechanical Fixings

ETA approved screw-in or hammerset fixings with steel nails are used. Refer to Soltherm standard details as well as fixing pattern implemented in the specification. Stainless steel fixings (fire fixings) only required above second storey to be installed through 1st layer of reinforcing coat.

#### 5. SOLTHERM UB or SOLTHERM UB Special

A1 basecoat designed to encapsulate the reinforcement mesh, providing the system with water resistivity, breathability and impact protection.

#### 6. SOLTHERM Glass Fibre Mesh

An alkali resistance reinforcement mesh bedded into the base coat providing increased flexibility, durability and impact resistance.

#### 7. SOLTHERM E or SOLTHERM SE

Elactic brick slips & stone slips adhesives designed to provide improved adhesion & reduced slumping properties.

#### 8. Brick Slips / Stone Slips

Decorative brick slips & stone slips offering a diverse range of colours and textures, compliant with ETA & NSAI certificates.

#### 9. SOLTHERM KL

Polymer modified pointing mortar designed to provide increased cracking and frost resistance.

#### 10. SOLTHERM IMP (if required)

Hydrophobic coating designed to provide additional protection and stain resistance, ultimately improving the system durability.

# SYSTEM COMPONENTS & MATERIALS

IMPORTANT: When using any component, product or material, refer to the technical datasheet before proceeding with the installation.

the installation.			
FUNGICIDAL WALL WASH	A concentrated biocide for cleaning masonry walls	5L Bottle	Diluted with clean water in accordance with the datasheet. The level of dilution will depend on the severity of the fungal growth on the wall.
SOLTHERM SP	A substrate primer for absorptive substrates	10kg Bucket	Applied directly to the mason- ry wall by brush, roller or low pressure spray.
SOLTHERM CS	A substrate primer for smooth, low porous substrates	14kg Bucket	Applied directly to the masonry wall by brush, or roller.
Soltherm SA	Standard adhesive with great adhesion strengths for bonding EPS insulation	25kg bag	Mix thoroughly with clean water (4,8 - 5,3 litre) allow to stand for 5 minutes and remix before applying in accordance with the specification.
SOLTHERM PROFILES & BEADS	Aluminium, PCG steel, stainless steel & PVC full system & surface mounted profiles.	Mostly 2.5m or 2.0m in length. Always refer to the specification and quotation	Full system beads are mechani- cally fixed and surface beads mainly bedded into base coat used as the adhesive. Always refer to the specification.
MECHANICAL FIXINGS	ETA certified screw-in fixings with steel nails.		The fixing is installed through insulation and through scrim coat in accordance with the specification.
SOLTHERM UB	Grey polymer modified base coat specyfically formulated for application onto Grey EPS insulation	25kg bag	Mix thoroughly with clean water (5.0 - 5.5 litres) allow to stand for 5 minutes and remix before applying in accordance with the specification.
SOLTHERM UB Special	Grey polymer modified base coat specyfically formulated for application onto Grey EPS insulation and MW boards	25kg bag	Mix thoroughly with clean water (5.0 - 6.0 litres) allow to stand for 5 minutes and remix before applying in accordance with the specification.
SOLTHERM GLASS-FIBRE MESH	An alkali resistance reinforcement mesh	50x1,1m roll	Cut to size with sharp knife.
Soltherm e	Cementitious brick slip adhesive specifically formulated for use with clay and concrete brick slips.	25kg bag	Mix thoroughly with clean water (5.4 - 5.6 litres) allow to stand for 5 minutes and remix before applying in accordance with the specification.
SOLTHERM SE	Cementitious super elastic brick & stone slips adhesive specifically formulated for use with ceramic and clay brick slips, concrete and stone slips and natural stone.	25kg bag	Mix thoroughly with clean water (5.75 - 6.25 litres) allow to stand for 5 minutes and remix before applying in accordance with the specification.
BRICK SLIPS / STONE SLIPS	Ceramic and clay brick slips, concrete and stone slips and natural stone manufactured to EN 14411, EN 771-1, EN-771-3, EN 1469, EN 771-5, EN 771-6 - subject to specification.		10-20mm thick brick slips, typically 65 x 215mm (alternative dimensions available on request).
Soltherm KL	Cementitious pointing mortar specifically formulated for use with clay and concrete brick slips.	25kg bag	Mix thoroughly with clean water (2.5 - 3.0 litre) allow to stand for 5 minutes and remix before applying in accordance with the specification.
SOLTHERM IMP	Silicone based water repellent sealer.	5kg bucket	Supplied as a ready-to-use product. Shake several times prior to application. Do not admix.

## INSTALLATION GUIDE SUBSTRATE PREPARATION



All heavy fungal growth must be removed from the substrate by either scraping or power wash and allowed to dry.

If the system is to be applied to an existing render substrate, it must be hammer tested first.



If required, apply FUNGICIDAL WALL WASH to the substrate in accordance with the specification and technical datasheet and allow to dry.

Apply either the SOLTHERM SP or SOLTHERM CS to the substrate in accordance with the specification and technical datasheet and allow to dry.



Surface irregularities and cavities (5-15mm) must be made good with SOLTHERM LRC, irregularities <5mm can be levelled using SOLTHERM UB or SOLTHERM UB Special.

## STARTER TRACK INSTALLATION



The SOLTHERM STARTER TRACK is installed at DPC level and at least 150mm above ground. The starter track is mechanically fixed at 300mm centres with specified fixing and approx. 50mm from the edge.



If the substrate is undulating and not line and level, it is acceptable to use packers.

The SOLTHERM STARTER TRACK must be mitred at external corners and linked together with adjacent profiles using profile joint clips.



Due to the weight of the EPS insulation, it may be a requirement to temporarily support the SOLTHERM STARTER TRACK.



If the contract does require insulation below DPC, please refer to your specification and contact Soltherm Technical with any queries relating to the materials, installation techniques and detailing.

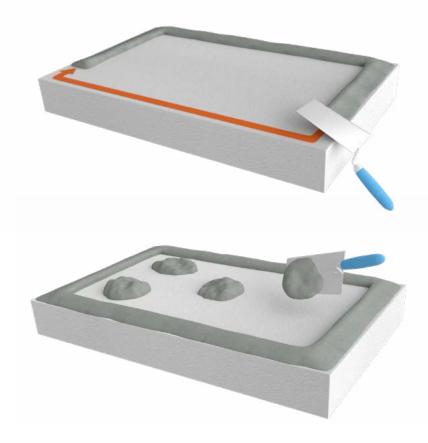


## INSULATION ADHESIVE APPLICATION

#### Insulation adhesive, SOLTHERM SA or SOLTHERM UB Special, must be applied in all circumstances.

There are two approved application options for the installer to choose from.

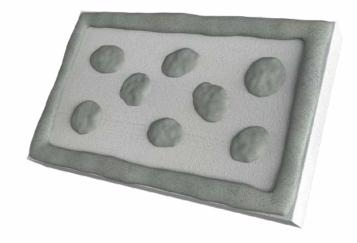
1. Ribbon & Dab Method – Suitable for substrate that have slight undulations 2. Notch Trowel Method – Suitable for line and level substrates,



#### **Ribbon & Dab Method**

Apply the SOLTHERM SA or SOLTHERM UB Special to the insulation around the perimeter of the board, minimum 30 mm.

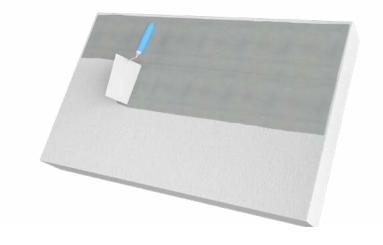
Apply 6 - 8 large dabs (80 - 100 mm) to the centre of the board.



The adhesive thickness of the insulation adhesive layer, after pressing against the substrate wall, must be  $\leq 10$  mm and cover  $\geq 60\%$  of the overall area of the board.

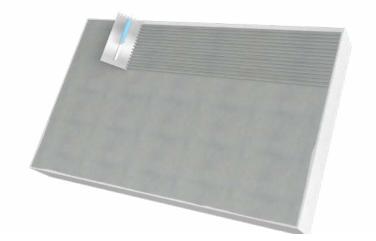


## INSULATION ADHESIVE APPLICATION



#### Notch Trowel Method

The insulation adhesive can be applied with a 10x10 mm notch trowel.

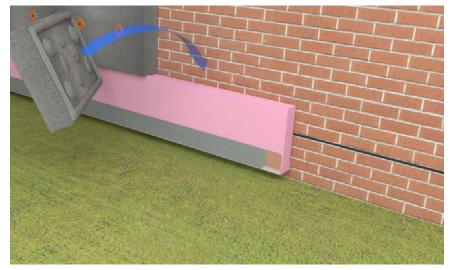


The insulation board is then pressed against the substrate wall and should achieve  $\ge 90\%$  contact area.

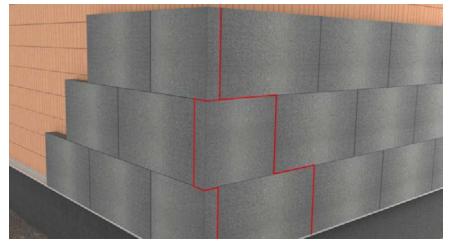
Important Note: The insulation adhesive must be allowed to dry before installing the mechanical fixings.



The first course of Grey EPS boards are placed into the SOLTHERM STARTER TRACK with the mesh of the clip on bead facing outwards.



Insulation boards must be placed against the substrate in a brickbond manner achieving a minimum 150 mm stagger with the above/below insulation panel.



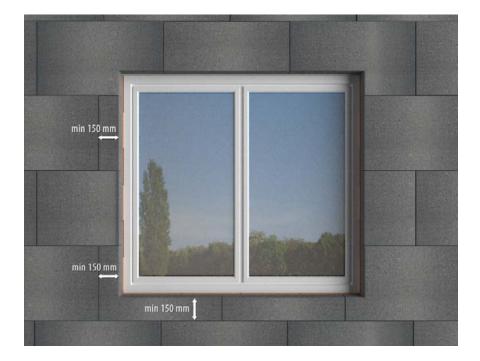
External corners are formed as per a brickwork corner, ensuring a full brickbond.



Always ensure that the insulation board are line and level throughout the façade, paying particular attention to external corners.



L shaped boards must be installed around all openings ensuring that no edge is smaller than 150 mm and no piece of insulation smaller than 150 mm throughout the installation.



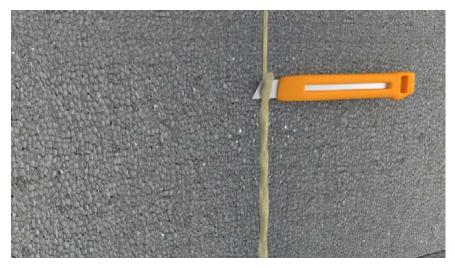




CORRECT



Any gaps between adjacent insulation panels must be filled with SOLTHERM PM-L FOAM or EPS off-cuts.



Once fully cured, excess SOLTHERM PM-L FOAM must be removed with a knife to ensure it is flush with the surface of EPS boards.



if required, the surface of the EPS can be rasped to ensure the EPS line & level, prior to proceeding with the installation of the system.



Where windows have recessed reveals and/or heads, oversail the insulation board beyond the existing to create a channel to set 20 mm or 30 mm thick EPS insulation strip in place within the reveal, adhesively fit as appropriate.

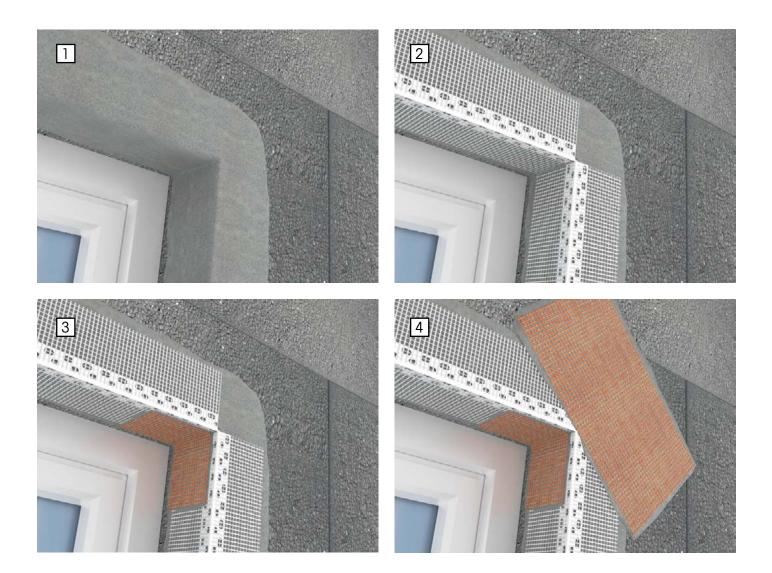




If windows are flush with the substrate, the main elevation insulation panels can simply over sail onto the window frame a minimum 20 mm..

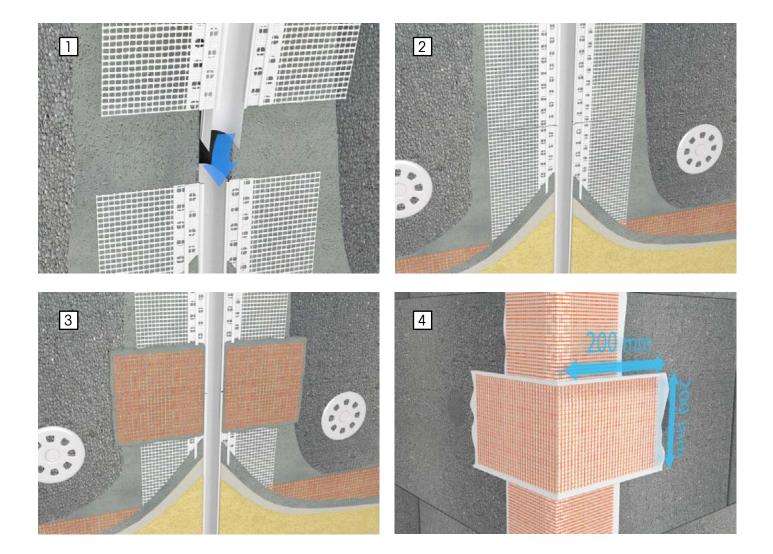
## GENERAL SURFACE MOUNTED BEAD APPLICATION

All surface mounted beads must have an additional reinforcing mesh patch, min. 200x200 mm, placed over the joint of adjacent beads to prevent cracking in the future. Additional stress patches of minimum 200x350 mm cut from standard reinforcing mesh must be placed at the corners of all structural openings at an approximate 45° angle.



## GENERAL SURFACE MOUNTED BEAD APPLICATION

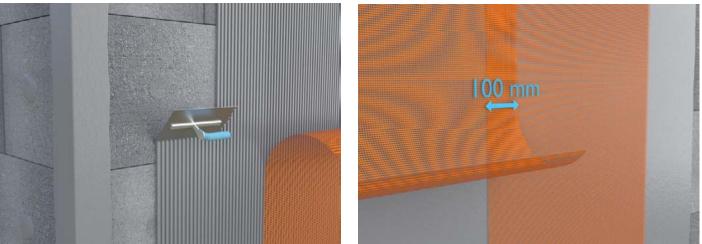
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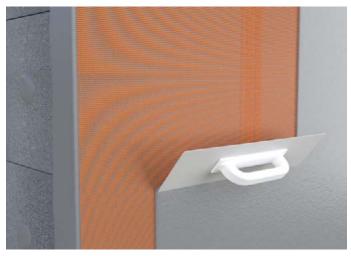
## BASE COAT APPLICATION

Once all the insulation boards are securely fixed in place, mix SOLTHERM UB or SOLTHERM UB Special basecoat in accordance with the technical datasheet. Using a clean stainless steel trowel, apply a layer of basecoat to the EPS insulation at an even thickness of 3 - 4 mm.





While the base coat is thoroughly wet, using an 8-10 mm notch trowel, apply a vertical notch. Gently lay the reinforcement mesh into the wet base coat, keeping the mesh in the top third of the material and ensuing the mesh has a minimum lap of 100 mm with all adjacent meshes.

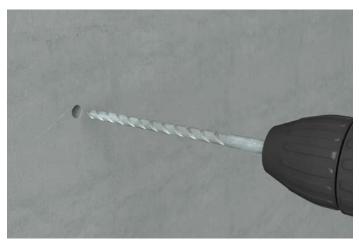


Allow the basecoat to dry for approximately 24 hours before applying a tight slurry coat 1-2 mm. The overall thickness of the basecoat should be between 3-5 mm.

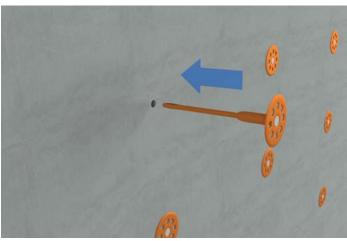
## FIXING THROUGH THE MESH APPLICATION

Whilst the specified basecoat is still wet and the Soltherm reinforcing mesh has been bedded in, proceed with the installation of the mechanical fixings.

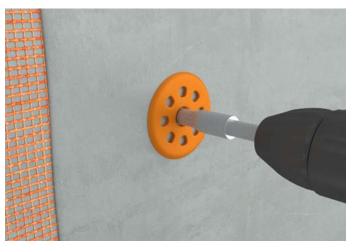
Always refer to the specification for the appropriate fixing pattern.



Following the specified fixing pattern, first drill through the basecoat and mesh, insulation and into the masonry substrate with an 8mm diameter drill bit to the appropriate depth.



Place the fixing into the pre-drilled hole and push the fixing in until the head of the fixing is flush with the face of the base coat.

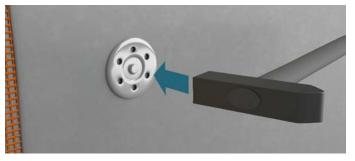


Screw or hammer the fixing into place ensuring the central pin is either flush with the fixing head or slightly recessed. The fixing head should be slightly recessed into the scrim coat face about 1-2mm.

## FIRE FIXING INSTALLATION



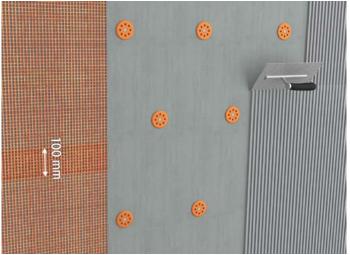
Drill an 8 mm diameter hole through the scrim and wet base coat at the required depth. Insert the stainless steel fixing into the hole with your hand as far as physically possible.



Using a hammer, gently hit the fixing centrally until it is recessed within the mesh and base coat approx. 1-2mm.

## BASE COAT WITH SECOND MESH APPLICATION

Allow SOLTHERM UB or SOLTHERM UB Special to sufficiently cure before proceeding with secondary reinforcing mesh application. In case of salt efflorescence sighting on the surface of the first reinforcing coat, prior to application of second reinforcing coat, it must always be dry cleaned with a brush and removed thoroughly. Then apply substrate primer SOLTHERM SP exactly once in one layer.



Apply a further coat of SOLTHERM UB or SOLTHERM UB Special at 1-2mm thick and lay through Standard SOLTHERM MESH ensuring no mesh is visible and is fully encapsulated in the base coat.



All secondary reinforcing mesh must maintain a minimum overlap of 100mm with adjacent mesh and all mesh joints must be staggered approximately 500mm from the joints the first reinforcing mesh application.



Allow the base coat to dry for approximately 24 hours before applying a tight slurry coat 1-2mm if required. The overall thickness of the base coat for DECO P BRIQ system should be between 4-6mm with two reinforcing meshes.

Allow SOLTHERM UB or SOLTHERM UB Special to fully cure before rasping any remaining trowel lines or protrusions and proceeding with the installation of the system.

# BRICK SLIP APPLICATION

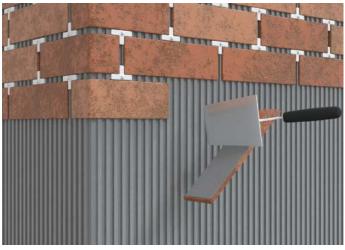
SOLTHERM UB or SOLTHERM UB Special must be allowed to fully cure and the application of SOLTHERM E or SOLTHERM SE must be no earlier than 72h (3 days) in optimal weather conditions (e.g. +23°C, 50% RH).

Mix SOLTHERM E or SOLTHERM SE in accordance with the technical datasheet.

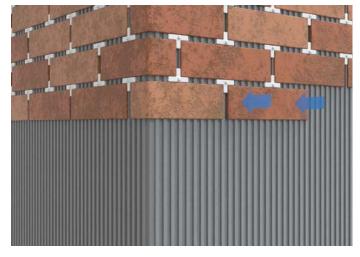
It is recommended that installation of the brick slips begins from building corners and openings.



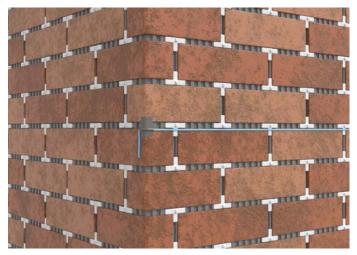
Apply SOLTHERM E or SOLTHERM SE to the cured base coat with an 8mm notched trowel, notching in various directions to allow optimal adhesion strength.



Apply a light contact layer of SOLTHERM E or SOLTHERM SE to back of the individual brick slips. Always ensure full coverage.



Firmly press the brick slip into place using a horizontal pushing motion, ensuring the collapse of the notched adhesive and 100% adhesion.



Following the general practices of brick laying, paying particular attention to the brick bond, apply the remaining brick slips, using plastic packers as guides to maintain the required joint width. Laser levels and string lines should be used to ensure application of the slips is level.

Allow SOLTHERM E to fully cure before proceeding with the installation of the system.

## POINTING MORTAR APPLICATION

SOLTHERM E or SOLTHERM SE brick slip adhesive must be allowed to fully cure and the application of SOLTHERM KL must be not earlier than 72h (3 days) in optimal weather conditions (e.g. +23°C, 50% RH).

Mix SOLTHERM KL in accorance with the technical datasheet.

SOLTHERM KL pointing mortar can be applied using one of two methods:

#### HANDBOARD/HAWK METHOD

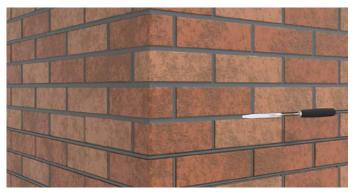


Using a handboard/hawk, offer SOLTHERM KL pointing mortar up the joint and using an appropriate trowel, fill the brick joints with SOLTHERM KL, fully filling the joint.



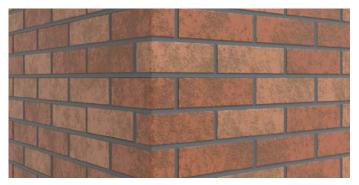
Once SOLTHERM KL pointing mortar has sufficiently picked up but remains ,green', point the mortar to the required method. Once complete, the walls are to brushed down with a soft brush at an approximate 45° angle, removing excess pointing mortar and cleaning the face of the brick slips.

(Note: recessed pointing is not recommended)



Once SOLTHERM KL pointing mortar has sufficiently picked up but remains ,green', point the mortar to the required method. Once complete, the walls are to brushed down with a soft brush at an approximate 45° angle, removing excess pointing mortar and cleaning the face of the brick slips.

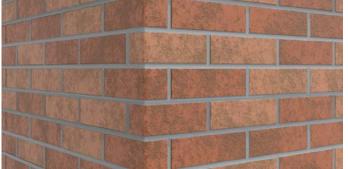
(Note: recessed pointing is not recommended)







Place SOLTHERM KL pointing mortar into a suitable pointing gun. Using the pointing gun, fill the brick joints with Soltherm KL, fully filling the joint.



Once the system has fully cured, proceed with the installation of SOLTHERM IMP.

## SOLTHERM IMP APPLICATION

The DECO P BRIQ system must be allowed to fully cure and the application of SOLTHERM IMP must be no earlier than 14 days in optimal weather conditions (e.g. +23°C, 50% RH).

Always ensure brick slip surfaces are dry, clean and free from any dust or other contamination.

SOLTHERM IMP is supplied as a ready-to-use product. Shake the product several times prior to application.

Apply SOLTHERM IMP by roller, brush or spray equipment until the substrate is thoroughly and evenly saturated.

Apply a second coat of SOLTHERM IMP in the same manner, immediately after the first, taking care to ensure the first coat does not completely dry out.

Care must be taken to ensure SOLTHERM IMP is not applied over the surfaces of polyurethane sealants and compressed sealing tapes.





Refer to Soltherm Technical Services for further guidance.



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