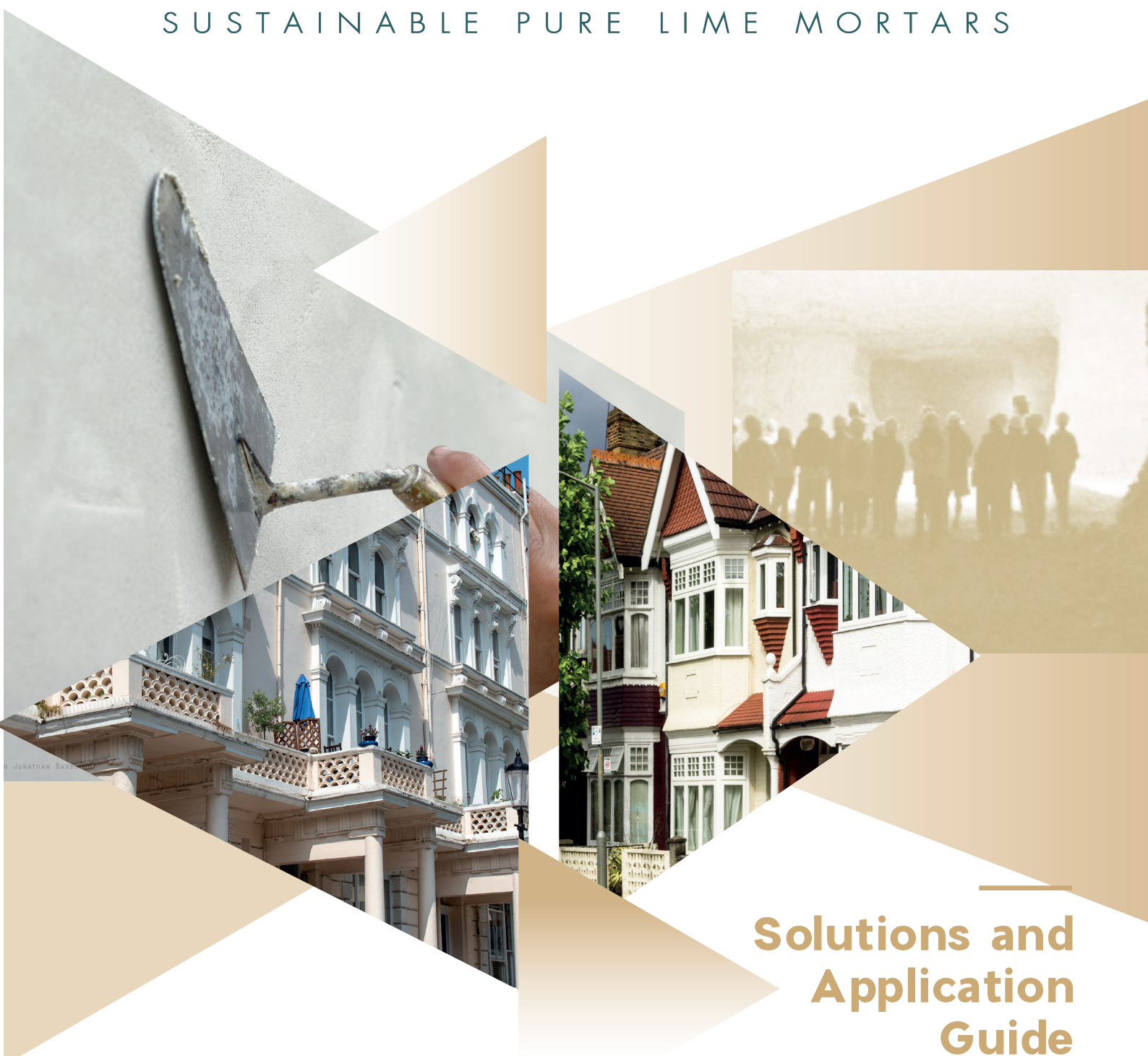




ECOMORTAR[®]

SUSTAINABLE PURE LIME MORTARS



Solutions and Application Guide

By  **SAINT-ASTIER**
LIME, LIFELONG EXCELLENCE

CREATE YOUR NATURAL ENVIRONMENT
www.stastier.co.uk

ECOMORTAR®

SUSTAINABLE PURE LIME MORTARS

SAINT-ASTIER® is an independent, family-owned company producing Natural Hydraulic Limes of excellence for more than five generations. Its history is one of deep-rooted values, passion and know-how shared and carried on by a team of over 150 collaborators and technicians.

Since the beginning, SAINT-ASTIER® has used its own quarry with a limestone deposit of over 350 hectares. This is an underground deposit, known as the 'Cathedral of Limestone' which, even at the depth of 200 meters, assures its constant and unique mineralogical quality.

ECOMORTAR® solutions have been used for over 25 years in many countries, predominantly in the UK. As cement-free products, they have been designed to meet the restoration and conservation needs of heritage buildings.

The range is based around four different products:

ECOMORTAR® BASE: bedding mortar/base coat render for traditional masonry

ECOMORTAR® R100: partial repair/resurfacing for internal and external use

ECOMORTAR® R50: preparation/resurfacing plaster, internal use only

ECOMORTAR® FINISH: finishing coat and pointing mortar

This ECOMORTAR® guide presents 9 solutions for the different possible applications depending on the backgrounds, substrates and desired finish. For each option, the solution (base coat + finish coat) is listed with the detailed application instructions as well as a tutorial video (available clicking on the link or flashing the QR code).

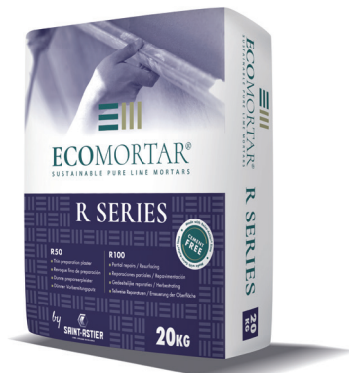


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SOLUTION I

Render for traditional backgrounds

ECOMORTAR® Base + ECOMORTAR® Finish

BASE COAT RENDER + FINISHING COAT

VAPOUR PERMEABILITY



WATER RESISTANCE



VOC-FREE



ELASTICITY



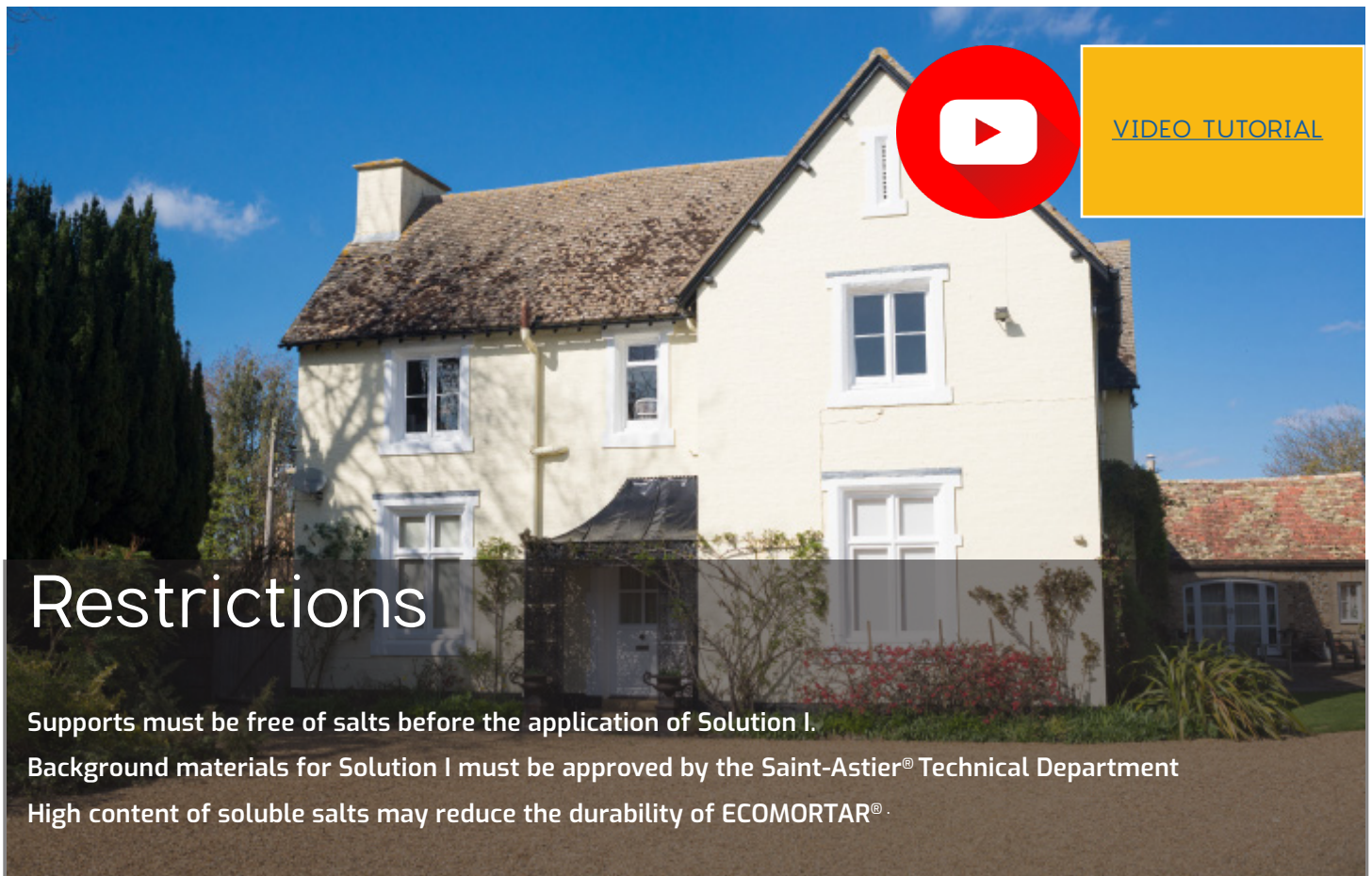
COLOUR STABILITY



INTERNAL USE

EXTERNAL USE

COLOURED FINISHES



Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Remove any existing render by hand (using a chisel, hammer or other tools as needed) or mechanically (using a small pneumatic hammer) until a healthy and compact substrate is revealed without loose or friable parts, saline efflorescence, mould or dust. The process should not affect the existing substrate. See diagrams.



2 SUCTION CONTROL

If needed, apply a light water mist to reduce excessive suction, especially on bricks and porous stone. Old bricks often require more dampening than new ones. A water mist is usually sprayed the day before and again, one hour prior to application. High absorption substrates may need to be sprayed several times. Apply the water mist starting at the top of the structure. Over saturation of the background will result in loss of bond. Never render backgrounds that have standing water on the surface. Always dampen preceding coats before applying the next coat. See diagrams.



3 APPLYING THE BASE COAT

Recommended thickness of the base coat is between 15 and 20mm per coat but will vary according to the overall thickness required. **Each coat must not be over 20mm thick.** If a total overall thickness over 20mm is required, it should be done in successive coats, each not exceeding 20mm. The thicker the intermediate coats, the longer the waiting time before each subsequent application.



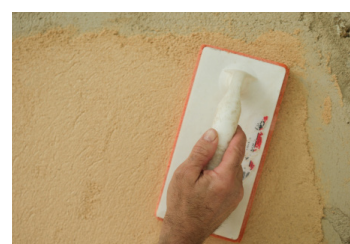
4 ENSURING A LEVEL FINISH

To achieve a uniform and level surface, fix vertical timber battens on the wall at 2 metre intervals. If the wall is uneven, use spacers and ensure the battens are straight with a plumb level. Fill out to the screeds, if necessary, in layers. Screed off excess mortar between the battens with a wooden straightedge spanning between the battens. When the battens are taken down, fill in strips with the same mortar. Check for shrinkage during the first 2 days after application and, if necessary, lightly dampen the relevant area, tighten back and re-key. In case of intermediate coats, this would apply to each coat. Do not apply a finishing coat until the undercoat is adequately hardened. See diagrams.



5 FINISHING COAT

After the previous coat is dampened, apply the finishing coat to a thickness of 5-12 mm. The finishing coat can be a scratch, sponge or smooth finish.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

SOLUTION II

Render for exposed areas

ECOMORTAR® Base + ECOMORTAR® WP

BASE COAT RENDER + FINISHING COAT

VAPOUR PERMEABILITY	★★★★★☆☆
WATER RESISTANCE	★★★★★★★☆☆
VOC-FREE	★★★★★★★☆☆
ELASTICITY	★★★★★☆☆☆☆
COLOUR STABILITY	★★★★★★★☆☆



ECOMORTAR® WP
5–10mm
RECOMMENDED
THICKNESS

ECOMORTAR® Base
10–15 mm
RECOMMENDED
THICKNESS

Brick, stone, other traditional materials, non-waterproof blocks

- ✓ EXTERNAL USE
- ✓ COLOURED FINISHES



[VIDEO TUTORIAL](#)

Restrictions

Supports must be free of salts before the application of Solution II.

Background materials for Solution II must be approved by the Saint-Astier® Technical Department

Solution II must not be used in the lower parts of buildings or wherever there is risk of water rising by capillarity.

Solution II should not be applied on substrates where there is a risk of soluble salts.

Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Remove any existing render by hand (using a chisel, hammer or other tools as needed) or mechanically (using a small pneumatic hammer) until a healthy and compact substrate is revealed without loose or friable parts, saline efflorescence, mould or dust. The process should not affect the existing substrate. See diagrams.



2 SUCTION CONTROL

If needed, apply a light water mist to reduce excessive suction, especially on bricks and porous stone. Old bricks often require more dampening than new ones. A water mist is usually sprayed the day before and again, one hour prior to application. High absorption substrates may need to be sprayed several times. Apply the water mist starting at the top of the structure. Over saturation of the background will result in loss of bond. Never render backgrounds that have standing water on the surface. Always dampen preceding coats before applying the next coat. See diagrams.



3 APPLYING THE BASE COAT

Recommended thickness of the base coat is between 10 and 15mm per coat but will vary according to the overall thickness required. **Each coat must not be over 20mm thick.** If a total overall thickness over 20mm is required, it should be done in successive coats, each not exceeding 20mm. The thicker the intermediate coats, the longer the waiting time before each subsequent application.



4 ENSURING A LEVEL FINISH

To achieve a uniform and level surface, fix vertical timber battens on the wall at 2 metre intervals. If the wall is uneven, use spacers and ensure the battens are straight with a plumb level. Fill out to screeds, if necessary, in layers. Screed off excess mortar between battens with a wooden straightedge spanning between the battens. When battens are taken down, fill in strips with the same mortar. Check for shrinkage during the first 2 days after application and, if necessary, lightly dampen the relevant area, tighten back and re-key. In the case of intermediate coats, this would apply to each coat. Do not apply a finishing coat until the undercoat is adequately hardened. See diagrams.



5 FINISHING COAT

After the previous coat is dampened, apply the finishing coat to a thickness of 5-10mm. The finishing coat can be a scratch, sponge or smooth finish.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

SOLUTION III

External board render

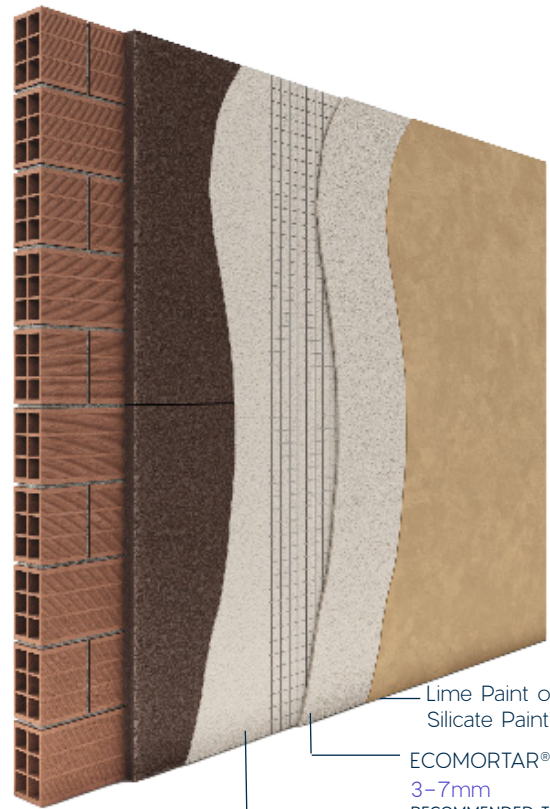
ECOMORTAR® R100 + BADILITH® Lime Paint

EXTERNAL BOARD RENDER + PAINTED FINISH

- VAPOUR PERMEABILITY ★★★★★
- WATER RESISTANCE ★★★★★
- VOC-FREE ★★★★★
- ELASTICITY ★★★★★
- COLOUR STABILITY ★★★★★



✓ EXTERNAL USE
✓ COLOURED FINISHES



Lime Paint or Silicate Paint
ECOMORTAR® R100
3-7mm
RECOMMENDED THICKNESS
ECOMORTAR® R100
3-7mm
RECOMMENDED THICKNESS
Approved boards which support minimum 30kg per m²



VIDEO TUTORIAL



Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Clean boards of any dust, loose or friable parts or any elements which could affect product adherence.



2 SUCTION CONTROL

Some boards will require misting. Do not dampen substrates painted with organic or low absorption paint, as water can create a "film" effect and reduce adhesion.



3 APPLYING ECOMORTAR® R100

Spread the first coat of the product onto the prepared substrate using a trowel, applying pressure to ensure adhesion and expel the air contained in the pores. If necessary, apply subsequent coats until the desired thickness is obtained. It is advised to embed an anti-alkaline fibre reinforcement mesh into the first coat using a trowel while it is still fresh. Recommended thickness per coat 3 to 7mm, the overall thickness must not exceed 10mm.



4 APPLYING MINERAL PAINT

All new rendered surfaces should be properly dry before applying lime paint. Apply with a good quality long haired brush in short strokes. Do not overload the brush, using only the bottom third of the bristles. Uneven application will result in uneven colouring. Stir paint regularly during application. Generally, 2 coats are sufficient. Wait 6 to 12 hours between coats.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

Restrictions

Solution III must be used on approved board only.

Solution III is not compatible with compressed wood panels.

Solution III must not be used in the lower parts of buildings or wherever there is risk of water rising by capillarity.

A mesh must be embedded when applying Solution III.

Before applying, always test product adherence on a small area.

SOLUTION IV

Re-surfacing & repair

ECOMORTAR® R100 + BADILITH® Lime Paint

SURFACE REPAIR + PAINTED FINISH

VAPOUR PERMEABILITY	★★★★☆
WATER RESISTANCE	★★★★☆
VOC-FREE	★★★★★
ELASTICITY	★★★★★
COLOUR STABILITY	★★★★★



Lime Paint or Silicate Paint

ECOMORTAR® R100
10mm
RECOMMENDED MAX THICKNESS

cement mortars, gypsum plasters and composite backgrounds where different materials are present.

- ✓ INTERNAL USE
- ✓ EXTERNAL USE
- ✓ COLOURED FINISHES



VIDEO TUTORIAL



Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Clean the surface of any dust, loose or friable parts or any elements which could affect product adherence.



2 SUCTION CONTROL

If needed, apply a light water mist to reduce excessive suction. Note: some substrates will require misting. Do not dampen substrates painted with organic or low absorption paint, as water can create a "film" effect and reduce adhesion.



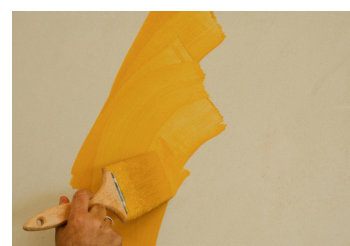
3 APPLYING ECOMORTAR® R100

Spread the first coat of the product onto the prepared substrate using a trowel, applying pressure to ensure adhesion and expel the air contained in the pores. If necessary, apply subsequent coats until the desired thickness is obtained. It is advised to embed an anti-alkaline fibre reinforcement mesh into the first coat using a trowel while it is still fresh. Recommended thickness per coat 3 to 7mm, the overall thickness for both coats must not exceed 10mm.



4 APPLYING MINERAL PAINT

All new rendered surfaces should be properly dry before applying lime paint. Apply with a good quality long haired brush in short strokes. Do not overload the brush, using only the bottom third of the bristles. Uneven application will result in uneven colouring. Stir paint regularly during application. Generally, two coats are sufficient. Wait 6 to 12 hours between coats.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

Restrictions

Solution IV must not be used in the lower parts of buildings or wherever there is risk of water rising by capillarity.

A mesh may be required when applying Solution IV.

Before applying, always test product adherence on a small area.

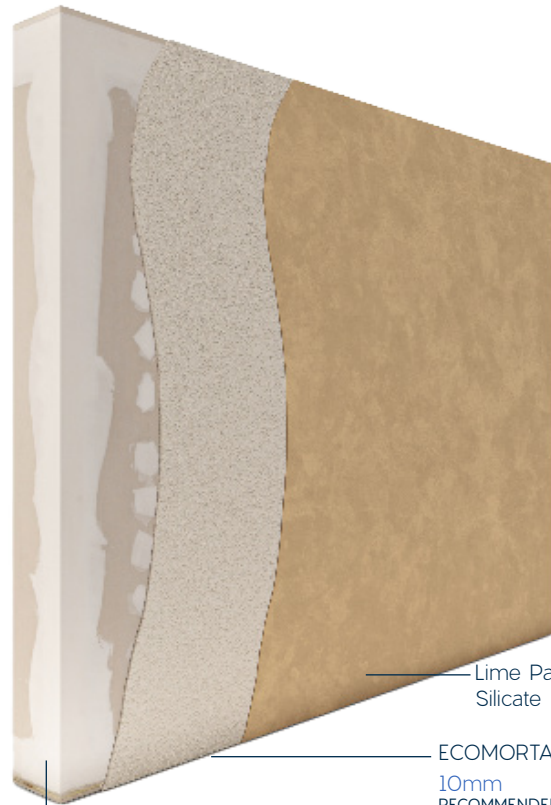
SOLUTION V

Painted finish drywall plaster

ECOMORTAR® R50 + BADILITH® Lime Paint

DRYWALL PLASTER + PAINTED FINISH

- VAPOUR PERMEABILITY ★★★★★
- WATER RESISTANCE ★★★★★
- VOC-FREE ★★★★★
- ELASTICITY ★★★★★
- COLOUR STABILITY ★★★★★



Lime Paint or
Silicate Paint

ECOMORTAR® R50

10mm
RECOMMENDED MAX
THICKNESS

Drywall panels which
support minimum 30kg per m²



INTERNAL USE



COLOURED FINISHES



VIDEO TUTORIAL

Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Clean the panels of any dust, loose or friable parts or any elements which could affect product adherence. See diagrams.



2 SUCTION CONTROL

If needed, apply a light water mist to reduce excessive suction. Note: some panels will require misting. Do not dampen substrates painted with organic or low absorption paint, as water can create a "film" effect and reduce adhesion.



3 APPLYING ECOMORTAR® R50

Spread the first coat of the product onto the prepared substrate using a trowel, applying pressure to ensure adhesion and expel the air contained in the pores. If necessary, apply subsequent coats until the desired thickness is obtained. For heterogeneous surfaces or surfaces with previous cracks, it is advised to embed an anti-alkaline fibre reinforcement mesh into the first coat using a trowel while it is still fresh. Recommended thickness per coat 3 to 7mm, the overall thickness for both coats must not exceed 10mm.



4 APPLYING MINERAL PAINTS

All new rendered surfaces should be properly dry before applying lime paint. Apply with a good quality long haired brush in short strokes. Do not overload the brush, using only the bottom third of the bristles. Uneven application will result in uneven colouring. Stir paint regularly during application. Generally, two coats are sufficient. Wait 6 to 12 hours between coats.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

Restrictions

Panels for use with Solution V must be approved by the Saint-Astier® Technical Department.

Panels for use with Solution V must be able to support minimum 30kg per m².

Solution V must not be used in the lower parts of buildings or wherever there is risk of water rising by capillarity.

It is advised to embed a mesh into the first coat when applying Solution V.

Before applying, always test product adherence on a small area.

SOLUTION VI

Polished finish drywall plaster

ECOMORTAR® R50 + DECOLISS® Venetian Plaster

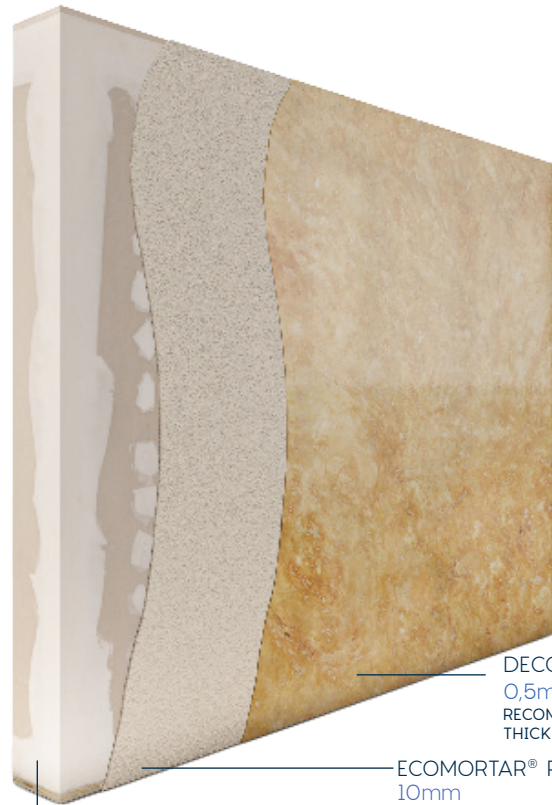
DRYWALL PLASTER + POLISHED FINISH

VAPOUR PERMEABILITY	★★★★☆
WATER RESISTANCE	★★★★☆
VOC-FREE	★★★★★
ELASTICITY	★★★★★
COLOUR STABILITY	★★★★★



✓ INTERNAL USE

✓ COLOURED FINISHES



DECOLISS®
0,5mm per coat
RECOMMENDED
THICKNESS

ECOMORTAR® R50
10mm
RECOMMENDED MAX
THICKNESS

Drywall panels which
support minimum 30kg per m2



[VIDEO TUTORIAL](#)

Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Clean the surface of any dust, loose or friable parts or any elements which could affect product adherence.



2 SUCTION CONTROL

If needed, apply a light water mist to reduce excessive suction. Note: some panels will require misting. Do not dampen substrates painted with organic or low absorption paint, as water can create a "film" effect and reduce adhesion.



3 APPLYING ECOMORTAR® R50

Spread the first coat of the product onto the prepared substrate using a trowel, applying pressure to ensure adhesion and expel the air contained in the pores. If necessary, apply subsequent coats until the desired thickness is obtained. For heterogeneous surfaces or surfaces with previous cracks, it is advised to embed an anti-alkaline fibre reinforcement mesh into the first coat using a trowel while it is still fresh. Recommended thickness per coat 3 to 7mm, the overall thickness for both coats must not exceed 10mm.



4 APPLYING DECOLISS® VENETIAN PLASTER

Apply DECOLISS® over the dry and clean substrate with a metal trowel in thin layers (maximum 1 - 2mm per coat). Each coat must be completely dry before applying subsequent coats.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

Restrictions

Panels for use with Solution VI must be approved by the Saint-Astier® Technical Department.

Panels for use with Solution VI must be able to support minimum 30kg per m².

Solution VI must not be used in the lower parts of buildings or wherever there is risk of water rising by capillarity.

It is advised to embed a mesh into the first coat when applying Solution VI.

Before applying, always test product adherence on a small area.

SOLUTION VII

Polished finish plaster on tiles

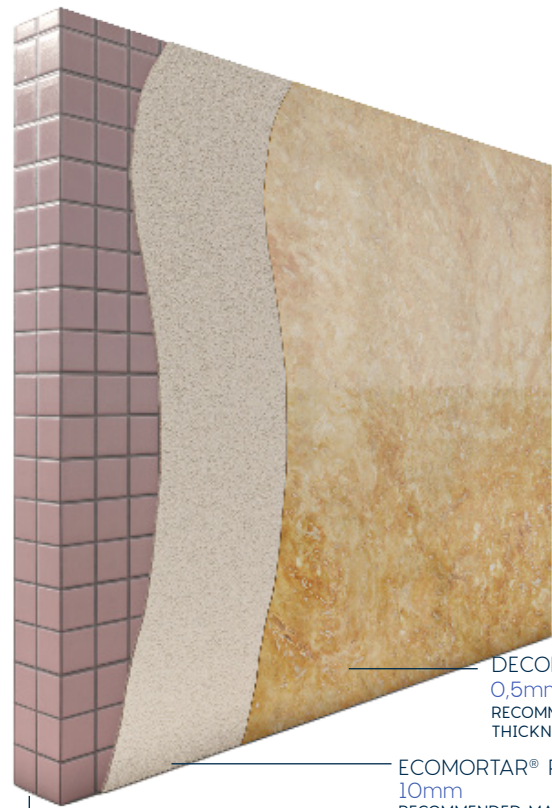
ECOMORTAR® R100 + DECOLISS® Venetian Plaster

TILE PLASTER + POLISHED FINISH

VAPOUR PERMEABILITY	★★★★☆☆
WATER RESISTANCE	★★★★☆☆
VOC-FREE	★★★★★★
ELASTICITY	★★★★★★
COLOUR STABILITY	★★★★★★



- ✓ INTERNAL USE
- ✓ COLOURED FINISHES



DECOLISS®
0,5mm per coat
RECOMMENDED
THICKNESS

ECOMORTAR® R100
10mm
RECOMMENDED MAX
THICKNESS

— Tiles, glazed ceramics, other mosaics. Please consult the Saint-Astier® Technical Department for approved surfaces.



[VIDEO TUTORIAL](#)

Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Clean the surface of any dust, loose or friable parts or any elements which could affect product adherence.



2 SUCTION CONTROL

If needed, apply a light water mist to reduce excessive suction. Note: some tiles will require misting. Do not dampen substrates painted with organic or low absorption paints, as water can create a "film" effect and reduce adhesion.



3 APPLYING ECOMORTAR® R100

Spread the first coat of the product onto the prepared substrate using a trowel, applying pressure to ensure adhesion and expel the air contained in the pores. If necessary, apply subsequent coats until the desired thickness is obtained. For heterogeneous surfaces or surfaces with previous cracks, it is advised to embed an anti-alkaline fibre reinforcement mesh into the first coat using a trowel while it is still fresh. Recommended thickness per coat 3 to 7mm, the overall thickness for both coats must not exceed 10mm.



4 APPLYING DECOLISS® VENETIAN PLASTER

Apply DECOLISS® over the dry and clean substrate with a metal trowel in thin layers (maximum 1 - 2mm per coat). Each coat must be completely dry before applying subsequent coats.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

Restrictions

Surfaces must be approved by the Saint-Astier® Technical Department.

Tiles for use with Solution VII must be able to support minimum 30kg per m².

Solution VII must not be used in the lower parts of buildings or wherever there is risk of water rising by capillarity.

Solution VII should not be applied in wet areas.

A mesh may be required when applying Solution VII.

Before applying, always test product adherence on a small area.

SOLUTION VIII

Painted finish plaster on tiles

ECOMORTAR® R100 + BADILITH® Lime Paint

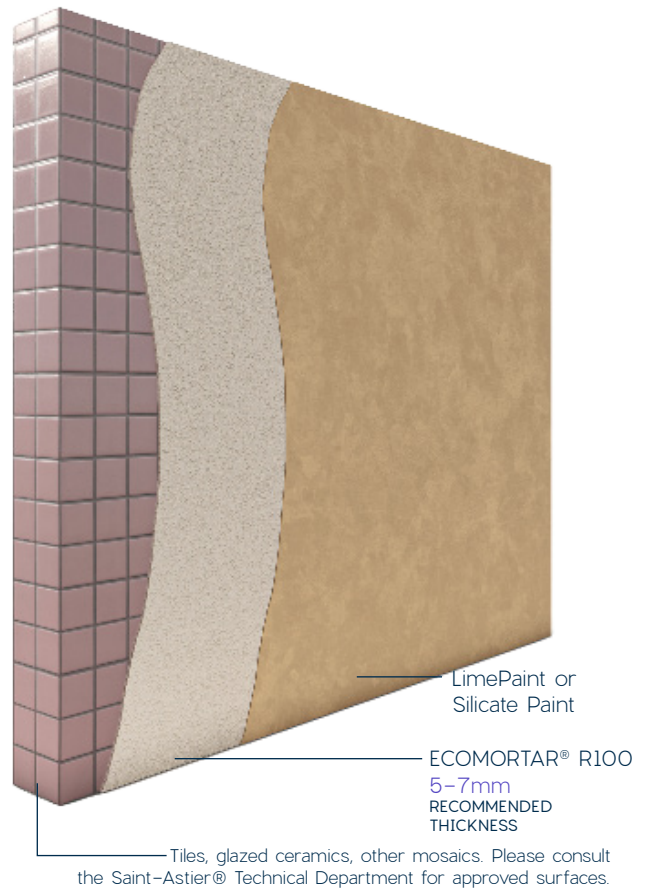
TILE PLASTER + PAINTED FINISH

- VAPOUR PERMEABILITY ★★★★★
- WATER RESISTANCE ★★★★★
- VOC-FREE ★★★★★
- ELASTICITY ★★★★★
- COLOUR STABILITY ★★★★★



✓ INTERNAL USE

✓ COLOURED FINISHES



Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Clean the surface of any dust, loose or friable parts or any elements which could affect product adherence.



2 SUCTION CONTROL

If needed, apply a light water mist to reduce excessive suction. Note: some tiles will require misting. Do not dampen substrates painted with organic or low absorption paint, as water can create a "film" effect and reduce adhesion.



3 APPLYING ECOMORTAR® R100

Spread the first coat of the product onto the prepared substrate using a trowel, applying pressure to ensure adhesion and expel the air contained in the pores. If necessary, apply subsequent coats until the desired thickness is obtained. For heterogeneous surfaces or surfaces with previous cracks, it is advised to embed an anti-alkaline fibre reinforcement mesh into the first coat using a trowel while it is still fresh. Recommended thickness per coat 3 to 7mm, the overall thickness for both coats must not exceed 10mm.



4 APPLYING MINERAL PAINTS

All new rendered surfaces should be properly dry before applying lime paint. Apply with a good quality long haired brush in short strokes. Do not overload the brush, using only the bottom third of the bristles. Uneven application will result in uneven colouring. Stir paint regularly during application. Generally, two coats are sufficient. Wait 6 to 12 hours between coats.



Please contact the Saint-Astier® Technical Department:
technical_support@saint-astier.com for suitable types of finishes.

Restrictions

Surfaces must be approved by the Saint-Astier® Technical Department.

Tiles for use with Solution VIII must be able to support minimum 30kg per m².

Solution VIII must not be used in the lower parts of buildings or wherever there is risk of water rising by capillarity.

Solution VIII should not be applied in wet areas.

A mesh may be required when applying Solution VIII.

Before applying, always test product adherence on a small area.

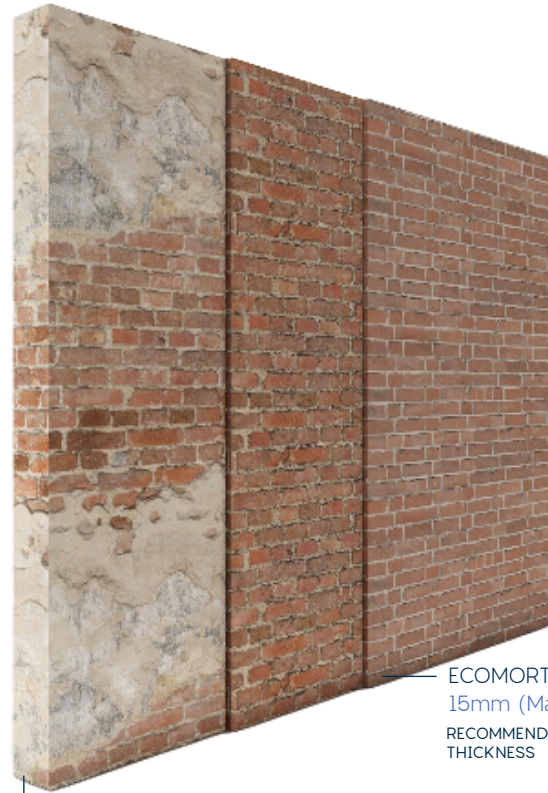
SOLUTION IX

Pointing & pointing repair

ECOMORTAR® Finish

COLOUR-MATCHED LIME MORTAR FOR MASONRY POINTING AND POINTING REPAIR.

- VAPOUR PERMEABILITY ★★★★★
- WATER RESISTANCE ★★★★★
- VOC-FREE ★★★★★
- ELASTICITY ★★★★★
- COLOUR STABILITY ★★★★★



ECOMORTAR® Finish
15mm (Max)
RECOMMENDED
THICKNESS

Brick, stone, ashlar, other dense backgrounds. Please always consult the Saint-Astier® Technical Department for approved surfaces.

- ✓ EXTERNAL USE
- ✓ INTERNAL USE
- ✓ COLOURED FINISHES



[VIDEO TUTORIAL](#)

Application Instructions

CAN BE APPLIED MANUALLY OR BY SPRAY GUN

1 PREPARING THE BACKGROUND

Old joints must first be raked out to a sufficient depth so that there can be adequate bonding between the masonry and new pointing mortar. Remove any existing mortar by hand (using a chisel, hammer or other tools as needed) or mechanically (using a small pneumatic hammer) until a clean, compact substrate without any loose or friable parts is achieved. The joints should be cleaned with pressurised air. This is essential, as any dust remaining in the joints will reduce bonding. Apply a light water mist to reduce excessive suction, especially on bricks and porous stone.



2 APPLICATION

Mortar should be plastic and workable but as stiff as possible. It should be pushed into the back of the joints in layers, always avoiding large volumes of deep filling. To ensure good compaction and adhesion within the joint, the mortar must be pressed firmly back.



3 APPLYING ECOMORTAR® FINISH

Once the surface of the mortar is firm (usually the next day), lightly scrape back the surface to expose the aggregate. This can improve the appearance of the mortar and make the joints less visible. This process should not be undertaken before the surface has stiffened, or the mortar will be smeared onto the face of the stone. Regardless of the finishing style chosen for the masonry or brickwork joints, the timing process for finishing the joint remains the same.



Restrictions

For dense backgrounds or low absorption surfaces ask to: technical_support@saint-astier.com

High contents of soluble salts may reduce the durability of ECOMORTAR®

Before applying, always test product adherence on a small area.

For areas susceptible to flooding or exposed to sea water, contact the Technical Department.

TECHNICAL DATA SHEETS



ECOMORTAR® Base

[CLICK FOR
TECHNICAL SHEET](#)



ECOMORTAR® Finish

[CLICK FOR
TECHNICAL SHEET](#)



DECOLISS®

[CLICK FOR
TECHNICAL SHEET](#)



ECOMORTAR® R50

[CLICK FOR
TECHNICAL SHEET](#)



ECOMORTAR® R100

[CLICK FOR
TECHNICAL SHEET](#)



BADILITH®

[CLICK FOR
TECHNICAL SHEET](#)



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