PRB RÉNOMUR TOP System

DEFINITION

PRB RÉNOMUR TOP is exclusively for use on individual houses on painted substrates and on any other unpainted buildings.

PRB RÉNOMUR TOP is a refurbishment system for exterior facades coated using an old or more recent hydraulic render, either unpainted or painted using a D2, D3 paint, or coated with an old floated, ribbed or rolled TPC.

PRB RÉNOMUR TOP is composed of:
- An intermediate (white) base-layer, either reinforced or not, applied:
  - At a thickness of 2 to 6 mm in 1 or 2 serrated finish layers using a V6 serrated or tiler's float, then covered by a thick hydraulic render.

Or
  - At a thickness of 2 to 6 mm in 1 or 2 smooth finish layers, then covered by a TPC, a TMC or painted.

The preliminary diagnosis and adhesion tests will be the subject of mandatory diagnosis sheets.

AUTHORISED SUBSTRATES

- **PAINT**[*1 and 2]

that has a surface condition that is:
- **Regular**: Smooth.
- **Irregular**: Coarsely or finely scratched, as sprayed, crushed or not.

- **TPC**[*1 and 2]

that has a surface condition that is:
- **Regular**: Floated, ribbed.
- **Irregular**: Rolled.

*1 (on traditional render and/or single-coat render applied on small element masonry (concrete blocks, brick, etc.) and/or cast concrete walls.)
*2 (on levelling and/or directly on cast concrete walls.)

PRB RÉNOMUR TOP Système techniques:

Applicable on healthy facades of which no areas of base-layer render under the paint or TPC have come loose and/or are damaged.

To be excluded on facades of which the facade surfaces have loose and/or damaged and/or damp areas of render, which have saltpetre under the paint or under the TPC (substrate condition not covered by this technique).

For old substrates (stone or quarry stone pugged using weak mortar) rendered and then covered with paint or a TPC: contact us.

PROHIBITED SUBSTRATES

ETI (External thermal insulation), Painted or TPC coated plaster or plaster/lime render, whitewash, silicate-based TMC, surface coating, graffiti prevention coating, water repellent coating, on several coats of paint, painted TPC, glycero paint whether gloss or not, semi-thick coatings, waterproofing paint, flexible resilient paints, in-ground elements subject to rising capillary damp and/or saltpetre.

Process sheet - 3 September 2019

Application advice

DIAGNOSIS AND ADHESION TESTS

• DIAGNOSIS: MANDATORY

Document available: (see the diagnosis sheet at the end of the document).

• ADHESION TESTS: MANDATORY

Document available: (see the diagnosis sheet at the end of the document).

• VISUAL APPEARANCE

- Micro-cracked and crazed: < 2/10th mm.
- Cracked: ≥ 2/10th mm but < 20/10th mm.
- Wide cracks: ≥ 20/10th mm.

• SOILING

- Biological (soiling, green staining, etc.)
- Urban pollution (exhaust fumes, atmospheric pollution, industrial pollution, etc.)

SUBSTRATE PREPARATION

• FACADE SANITISATION TREATMENT

- **For biological soiling**: **PRB ACTI FLASH** followed by cleaning using a high pressure water cleaner.
- **For urban pollution**: cleaning using a high pressure water cleaner with the possibility of adding a detergent suitable to eliminate the diagnosed pollution type, followed by rinsing.

• FOR AS-SPRAYED AND MECHANICALLY SPRAYED RENDER

- Mechanically flatten the surface using a diamond disk sander to obtain 5 mm maximum hollows, then wash thoroughly to eliminate sanding residue.

• FOR ROLLED TPC and/or STRUCTURED SURFACES

- Flatten the surface using a diamond disk sander, then wash thoroughly to eliminate sanding residue.

• CRACK REPAIRS

- **Micro-cracking and crazing < 2/10th mm**:
  Leave as is.

- **Cracks ≥ 2/10th mm but < 20/10th mm**:
  Open the cracks using a grinder, thoroughly remove the dust and fill them using PRB Rénomur Top.

- **Wide cracks ≥ 20/10th mm that impact the masonry substrate:**
  Clear the crack down into the substrate over a width of 2 to 3 cm, clean it, remove the dust and refill using **PRB TP REPAR (R2)**.

• PRELIMINARY TREATMENT OF SPECIAL ZONES

To be covered and perfectly embedded in a layer of PRB Rénomur Top in 2 applications:

- Pre-meshed PVC corner beads (**CORNPVCTOIL23** and/or **TOIL 30**).
  Location: On all outer angles and on the outer window sill angles on facades.

- Pre-meshed corners with drip profiles (**CORNPVCGOUT 6, 10 or 14 mm**).
  Location: On all overhanging lintels and horizontal overhangs (beams) on facades.

- Patches (**TDMOUCHCHANGREN**) or patches (30 x 40 cm rectangles) first cut from 4 x 4 mm glass mesh (AVN).
  Location: To be placed diagonally to the window bays on facades.

PRB RÉNOMUR TOP SYSTEM APPLICATION

• PREPARING PRB RÉNOMUR TOP

Mix the powder with about 24 % by weight of water, or about 5.5 to 6 litres of water per 25 kg bag.
Standing time before application: 5 minutes.
Practical workable time: 2 hours.

FOR A HYDRAULIC RENDER FINISH

- **Application method**: manual or mechanical, then worked using a serrated or V6 tiler's float (serrated).

• HEALTHY, FINE, SMOOTH PAINTED SUBSTRATE

(no cracks and flaking)

Make 1 application of PRB Rénomur Top render from 2 to 4 mm thick and then serrate using a V6 tiler's or serrated float.

Healthy, fine, smooth and painted substrate
(no cracks and flaking)

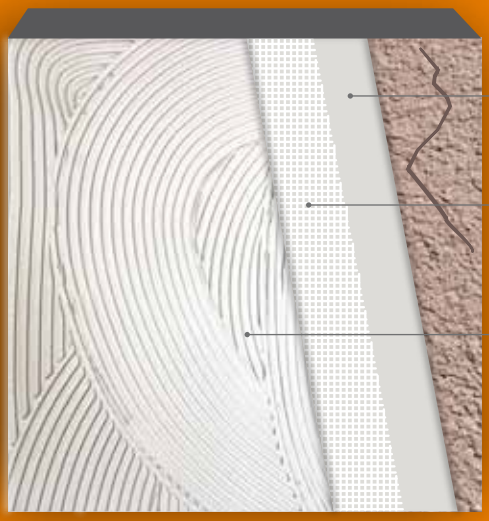
• HEALTHY, IRREGULAR, ROUGH SUBSTRATE COATED WITH TPC

(no cracks and flaking)

Apply a 1st layer of PRB RÉNOMUR TOP render using a smoother to level out the substrate, then a 2nd layer 2 to 4 mm thick serrated using a V6 tiler's or serrated float

Healthy, irregular, rough substrate covered with a TPC
(no cracks or flaking)

Application advice



Irregular substrate
(repaired crazing and cracks)

• IRREGULAR SUBSTRATE

(repaired crazing and cracks)

Apply PRB RÉNOMUR TOP render in 2 layers, embedding PRB AVN 4 x 4 mesh glass fabric in the 1st layer (certified alkali resistant) then apply the 2nd layer serrated using a V6 tiler's or serrated float.

- **Time before finishing**: Depending on the drying (dry to the core): from the next day to several days depending on weather conditions.

COMPATIBLE FINISHES

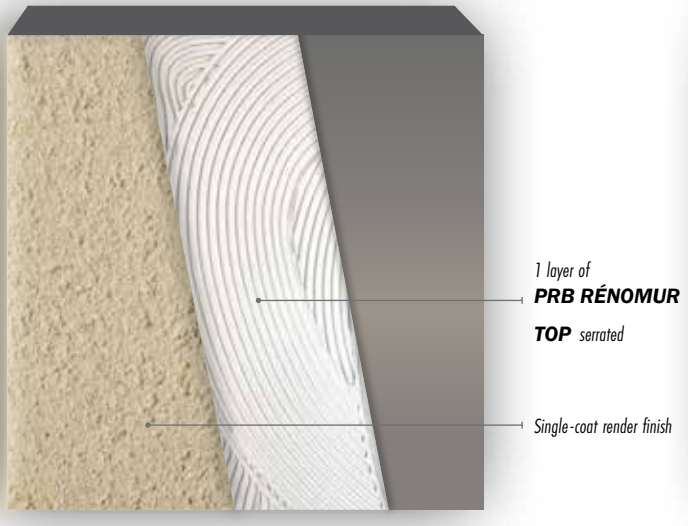
(see product technical sheets)

• THICK HYDRAULIC RENDER

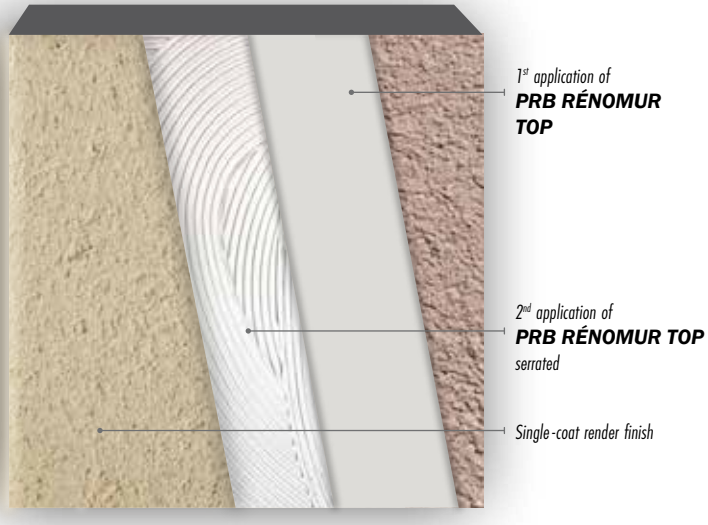
(see the technical sheet for the selected finish).

Finishes	Scratched	floated	Rustic flattened or not
Number of layers	1	1	2
Finished thickness (mm)	7 to 10	5 to 8	5 + 3

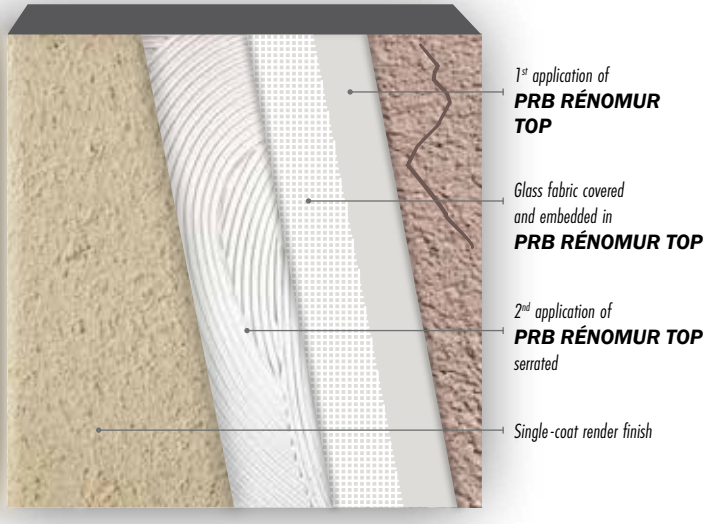
Render and Minimum consumption: kg/m².			
PRB SUPERBRUT	10 to 14.5	7.5 to 12	12
PRB FINICHAUX	9 to 14	7 to 11	11
PRB ALG Fin	9 to 14	7 to 11	11
PRB 6000 R	9 to 14	7 to 11	11
PRB Belle Époque F	12 to 17	8.5 to 14	13 to 14
PRB Ozé	11 to 16	8 to 13	13



Healthy, fine, smooth and painted substrate
(no cracks and flaking)



Healthy substrate, irregular, rough and coated with TPC or painted render *(no cracks and flaking)*



Irregular, rough substrate coated with TPC or painted render *(repaired crazing and cracks)*

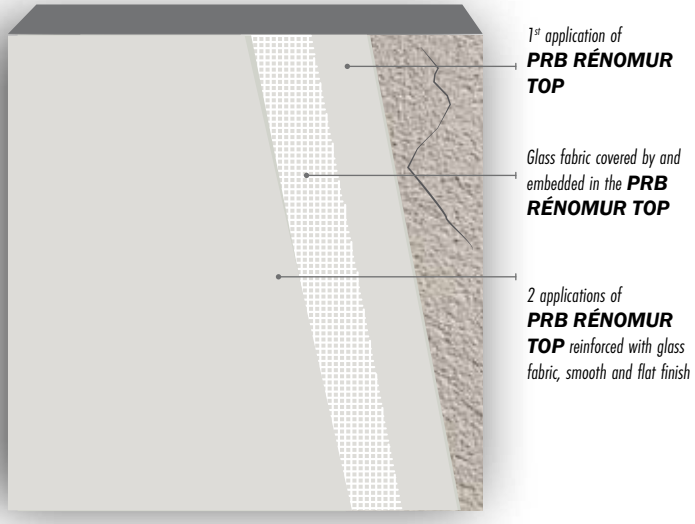
Application advice

FOR A TPC, TMC OR PAINTED FINISH.

Application method: manually or mechanically, then worked using a float for a smooth and flat finish.

• PRB RÉNOMUR TOP FINISH: SMOOTH AND FLAT

Healthy painted substrate
(no cracks and flaking)



Irregular painted substrate
(crazed and repaired)

Time before finishing: depending on drying (dry to the core) from 24 hours to several days depending on the weather conditions.

• FINISHES

TMC (Structured Mineral Coating with a floated finish) (see the technical sheet for the selected finish): minimum consumption:.

PRB CREPIXATE
Optional: apply PRB CREPIFOND Minéral G base regulator: 300 g/m²

F: 2.1 kg/m²
M: 2.4 kg/m²

Apply **PRB CREPIFOND** Minéral G base regulator**:** 300 g/m²
or **PRB COLOR MINERAL +**: 2 x 250 g/m²

PRB COLOR SILOXANE: 2 x 250 g/m²
PRB CREPITAL: 2.5 kg/m²
PRB CREPOXANE F: 2,1 kg/m² - M: 2.5 kg/m²
PRB CREPISIX M: 2.5 kg/m²

TPC (Thick Paint Coating) (see the technical sheet for the selected finish)
First apply PRB CREPIFOND G base regulator (300 g/m²)

PRB CREPIMUR F: 2,1 kg/m² - M: 2.2 kg/m² - G: 3.5 kg/m²
PRB CREPIMUR Souple: M: 2.3 kg/m²- G: 3.5 kg/m²
PRB CREPIRIB F: 2 kg/m²- G: 3 kg/m²

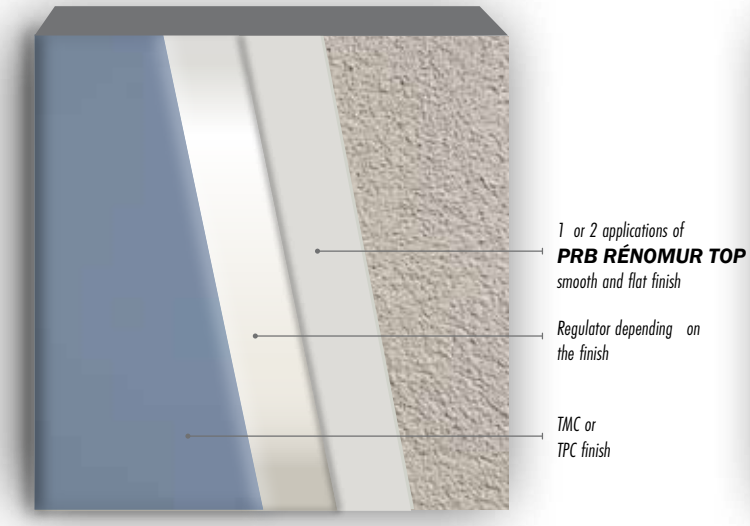
PRB CREPILIS Sous couche : 1.5 kg/m²
PRB CREPILIS Finition: 0.8 kg/m²
PRB CREPIMUR SOUPLE F SILOXANÉ: 1.5 kg/m²

Or only as a finish:

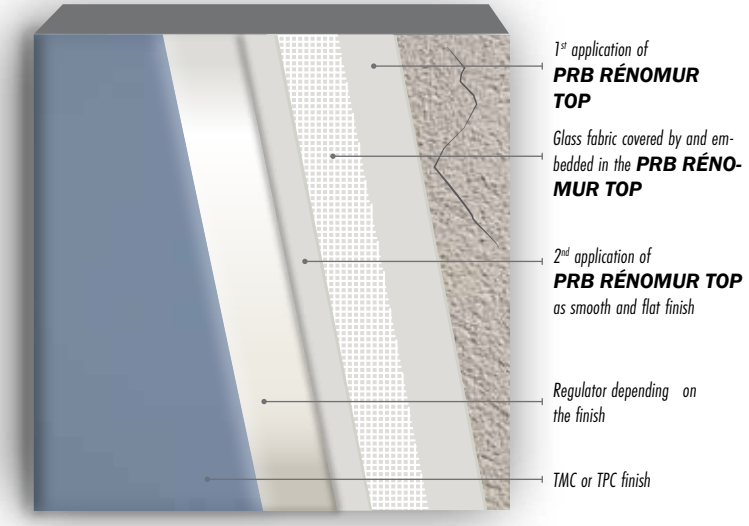
PRB CREPILIS Sous couche: 1.5 kg/m²

Finish types

Example: Thin render finish (TPC-TMC).



Healthy painted substrate
(no cracks and flaking)

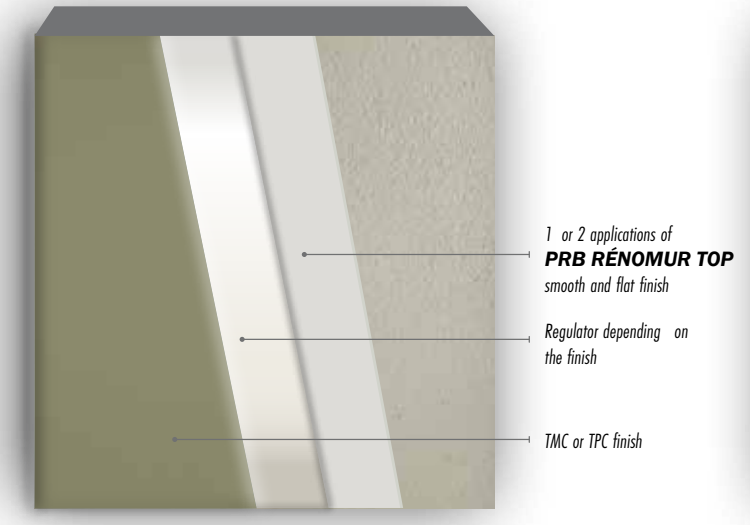


Irregular painted substrate
(crazed and repaired)

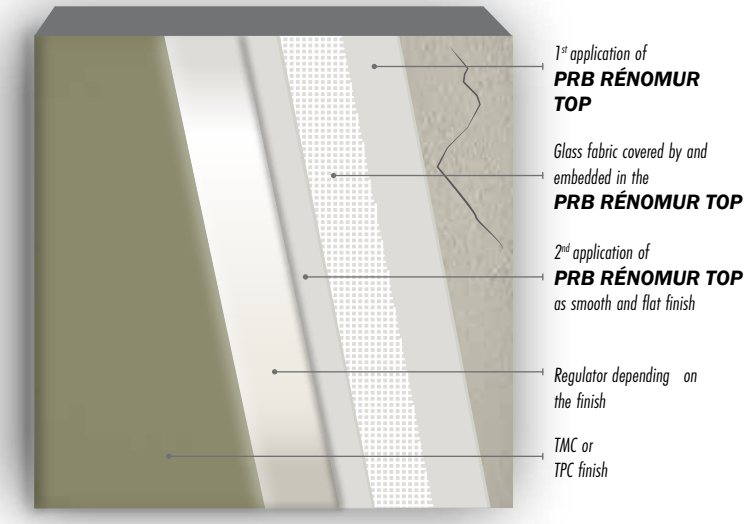
PAINT
(see the technical sheet for the selected finish).

Decorative paint applied on the **PRB RÉNOMUR TOP** base-layer
Application of 2 coats of pure paint using a roller or a brush

PRB COLOR ACRYL D2: 2 x 250 g/m²
PRB COLOR SILOCRYL D2: 2 x 250 g/m²
PRB COLOR SILOXANE D2: 2 x 250 g/m²
PRB COLOR SILOFLEX D3: 2 x 350 g/m²
PRB COLOR LITE HYDRO: 2 x 200 g/m²
PRB COLOR MAX RÉNO: 2 x 350 g/m²

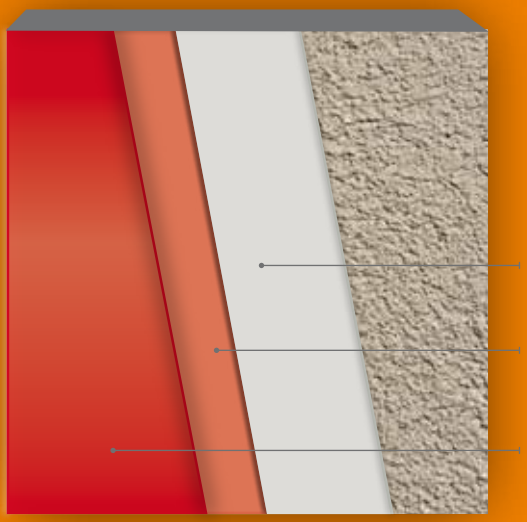


Healthy unpainted substrate
(no cracks and flaking)

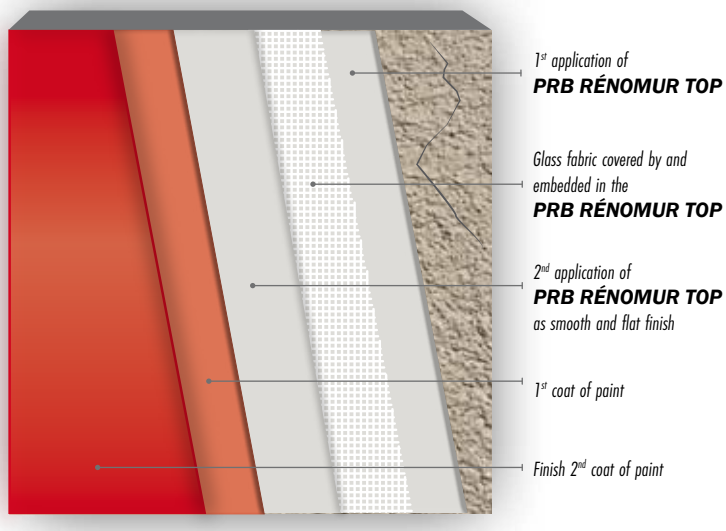


Irregular unpainted substrate
(crazed and repaired)

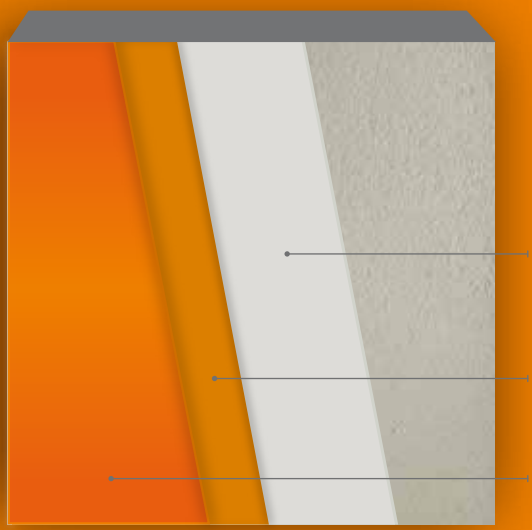
Finish types



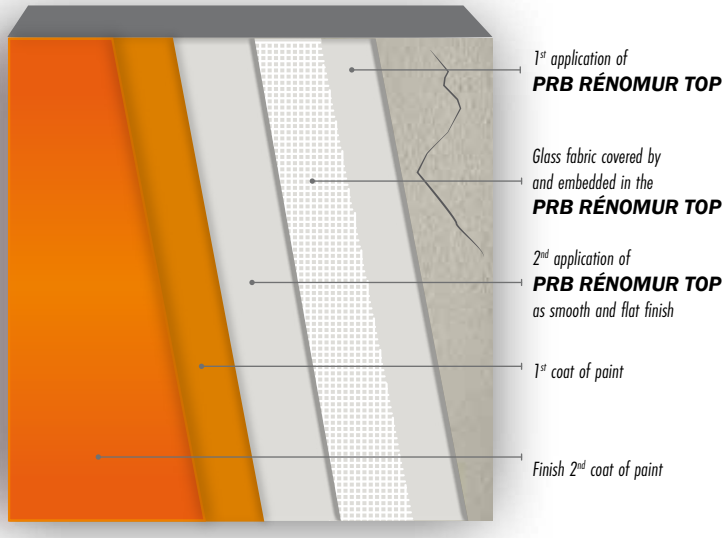
Healthy painted substrate
(no cracks and flaking)



Irregular painted substrate
(crazed and repaired)



Healthy unpainted substrate
(no cracks and flaking)



Irregular unpainted substrate
(crazed and repaired)

SPECIAL AREAS

- In order to limit risks of cracking, it is essential to provide separation joints at the hard point level to prevent contact with the base-layer and finish.
- These spaces over the hard points will be filled using a PRB MASS CRYL + or PU acrylic mastic.
- The building expansion joints will also be respected and covered with commercial profiles provided for this purpose.
- The shell partitioning joints can be covered using the system without any special treatment.
- If these are imposed by the client, they will be treated by a perfectly straight cut of the base-layer and finish, treated using a suitable profile intended for this purpose in the same way as an expansion joint.

PRECAUTIONS FOR USE

- Contains cement and/or lime
- Read the regulatory labelling on the package.
- Read the safety data sheet before using.
- The ambient temperature when using the products must be between + 5 ° C and + 30 °C
- Do not apply in wet weather, in direct sunlight or on frozen or thawing substrates.
- Refer to the Technical sheet and instructions.

TECHNICAL SUPPORT

- P.R.B. provides a technical support service for and at its customers request that aims to give advice or assistance when a product is first used during project start-ups.
- Its intervention within the framework of a demonstration cannot substitute the signatory company's own liability for work on the project or structure concerned, in particular in terms of substrate acceptance or structural design.

GUARANTEES

- Manufacturer's civil and professional liability
- The use of this product requires the knowledge of trade practices for their intended purposes and knowledge of applicable regulations.
- The recommendations and indications in this document come from our experience. Therefore, considering any technical developments, our customers are responsible for checking that this document is still valid by contacting our departments.

PRB
Produits de Revêtement du Bâtiment

Mandatory diagnosis sheet:
Salesperson name:

Site reference (name & address): .....

Diagnosis date:..... .....

Carried out by :	stamp:
Name:	
Address:	

0: Compatibility and adherence tests using peeling: Treat a 20 x 50 cm surface area by applying Rénomur Top with AVN fabric (4 x 4 mesh), leaving 20 cm of reinforcement exposed at the bottom.
After 7 days of drying, pull the reinforcement to peel off the system in place.
If the coat of paint or TPC does not come off, this confirms the compatibility of the system with the existing coating.

1: Visual observations and sounding: Check the proper adhesion of the paint or TPC as well as the absence of blistering, looseness, flaking or damp both visually and by careful sounding.

2: Run-off: Wet the coating surfaces; This should leave a darker shadow; If the water runs-off without leaving any traces, the coating is waterproofed or sealed and is not therefore compatible with this refurbishment system.

3: Continuous soaking: Apply a sponge soaked in water against the facade for 30 minutes, then remove it and observe the existing coating: it should not be altered, softened or expanded.

4: Folding: use a cutter to remove a 4x4 cm or 6x6 cm piece of coating and fold it. If it is flexible and does not break, it is incompatible with the refurbishment system.

5: Surface cohesion using a grid test: at least 2 tests per facade, 1 on the lower part and the other on the upper part.
On 2 surfaces, one dry and the other wet, use a cutter to make a grid of 6 cuts measuring 2x2cm for paint and 5x5 mm for TPC.
Then brush the surface, test the grids and remove the detached parts using adhesive, then inspect:
No squares should be detached from the grid surfaces, if they are, the coating is not compatible with the refurbishment system.

6: Burning: heat the coating using a blow torch.
- If the coating softens and burns releasing a strong burnt plastic smell, it is an organic product.
- If the coating does not burn or release any odours, it is a silicate-based product or a lime whitewash, in which case it is not compatible with the refurbishment system.

Then scrape the heated coating using a painter's knife and check the coating behaviour down to the substrate.

Diagnosis comments:

	North facade	East facade	South facade	West facade
0: Compatibility and adhesion tests using peeling				
1: Visual and sounding observations				
2: Run-off				
3: Continuous soaking				
4: Folding				
5: Surface cohesion using a grid				
6: Burning				

Photos of each facade mandatory

Send a copy of the results to the works manager and a copy to the PRB factory.

Favourable opinion ☐ Unfavourable opinion ☐ Date ☐

PRB
Produits de Revêtement du Bâtiment

Adhesion tests on the facades of individual houses

Salesperson name:

Site reference (name & address): .....

Test date: .....

Adhesion test carried out by:	stamp:
Name:	
Address:	

- **Steel tees fitted with:**
- **Preliminary substrate preparation type:**
- **Ambient temperature during bonding:**
- **Ambient temperature during the tests:**
- **Type of equipment used:** 16 KN model dynamometer

	Test location			
Test number removal value	**North facade**	**South facade**	**East facade**	**West facade**
1 (KN)				
2 (KN)				
3 (KN)				
4 (KN)				
5 (KN)				

	Test location			
Breakage mode*	**North facade**	**South facade**	**East facade**	**West facade**
1				
2				
3				
4				
5				

***Breakage mode coding**: it is mandatory to attach the breakage mode photos

- Cohesive breakage in the substrate: CF-S
- Adhesive breakage between the paint or TPC and the blob adhesive: AF-T
- Adhesive breakage between the paint or TPC and the substrate: AF-S
- Adhesive breakage of the system (Tee): BT
- Cohesive breakage in the tee adhesive: CF-A
- Cohesive breakage in the paint or TPC: CFT

4: Test average: (the 2 extreme values are discarded)
- Sum of the tests = ____ / divided by the number of tests: = ____ KN x 0.4 * = ____ MPa
* KN x 10 and divided by the Tee surface area.

Assessment:
Good if the average stress is greater than or equal to:
- 0.3 MPa (3 bars) for cases of cohesive breakage of the substrate.
- 0.5 MPa (5 bars) for cases of cohesive breakage of the coating or the adhesive.

Bad in all other cases.

Send a copy of the results to the works manager and a copy to the PRB factory.

Favourable opinion ☐ Unfavourable opinion ☐ Date ☐