



## Technical Data Sheet

### PROBOARD

#### DESCRIPTION

Advanced render carrier board for use as part of the ProWall rendered rainscreen cladding system.

#### COMPOSITION

Render carrier board made of Portland cement, aggregate, polystyrene balls and glass fibre mesh.

#### CHARACTERISTICS

ProBoard is lightweight, fire resistant render carrier board with tapered double-wrapped edges, ProBoard is flexible, impact resistant, highly durable and dimensionally stable.

ProBoard is easily cut using a utility knife and straight edge or with a circular saw. Edges may require a little attention after cutting.

ProBoard is highly moisture resistant and will not rot, disintegrate or swell when exposed to water.

#### COLOUR

Black/Grey.

#### PACKAGING

33 sheets par pallet.

#### DIMENSIONS

1.2m x 2.4m

#### COVERAGE

2.88 m<sup>2</sup>

#### STORAGE

Store in cool, dry conditions. Do not stack greater than 3 pallets high. Protect ends, edges and faces of ProBoard from damage.

#### SITWORK

Scaffolding must be independently tied, to allow uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration, must be rectified.

#### SITE CONDITIONS

Temperature range, 5 - 30 degrees centigrade. Protect surface of ProBoard from extreme weather conditions prior to application of subsequent layers of ProWall render system.

#### SUBSTRATE

Timber or steel frame substrates.

#### PREPARATION

The background has to be supporting and free from dust, loose particles, damp and other pollution which can be of disadvantage to the application.

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### APPLICATION

Cut ProBoard sheets to size using a utility knife or circular saw. Install boards in block bond fashion avoiding stress lines around apertures. Fix boards using ProWall fixings and as directed in ProWall technical details.

Tape/scrim joints using ProRend Lite and ProMesh Grade 3 leaving an overlap of 150mm either side of ProBoard joints.

For information on ventilation profiles, detailing of apertures, expansion control and fire breaks, please refer to ProWall technical details.

### CURING/DRYING

N/A.

### HEALTH & SAFETY

Refer to material safety data sheet for full details of safety measures.

### TECHNICAL DATA

Board weight:	14.7 kg/m <sup>2</sup>
Flexural strength:	>6.9 MPa
Indentation strength @ 1.3 mm:	15.5 MPa
Water absorption, 24hrs:	<8%
Linear variation VS moisture change:	<0.07%
Freeze thaw resistance:	100 cycles
Wind load:	195 kg/m <sup>2</sup>
Thermal Conductivity:	0.20 W/mK
Bending radius:	1.5 m
Shear bond strength:	>1.7 MPa
Reaction to fire:	A1

*nb. Subject to alteration due to technical developments.*

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### PROREND LITE

#### DESCRIPTION

ProRend Lite is especially suitable for application on ProBoard cement particle board and insulation systems. ProRend Lite is spatula finished ready for a subsequent application of ProRend Colourtex primer and finish coat.

#### COMPOSITION

A premium industrially produced stone mortar based on bonding agents of lime and cement in accordance with DIN 1060 and DIN 1164 with mild additives.

#### CHARACTERISTICS

ProRend Lite has outstanding hydraulic and water-repelling properties. It can be worked easily, manually or mechanically as a bonding and foundation mortar. After setting, this mortar ensures healthy living conditions thanks to its excellent water-permeability characteristics.

#### COLOURS

White

#### PACKAGING

20 kg paper bag  
42 bags per pallet

#### COVERAGE

0.875kg/mm/m<sup>2</sup>

#### STORAGE

Can be kept for 6 months in cool dry conditions and off of the ground.

#### BS EN 13914-1:2005

Design, preparation and application of external rendering and internal plastering should be followed at all times.

#### SITWORK

Scaffolding must be independently tied, to allow uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration, must be rectified.

#### SITE CONDITIONS

Temperature range, 5 - 30 degrees centigrade. ProRend Lite must not be applied to frozen or thawing substrates. If the coating must be applied in adverse weather conditions, it is essential to protect both the working area and finish before and after application.

#### SUBSTRATE

ProRend Lite can be applied to ProBoard cement particle board or ProRend EIFS insulation systems – contact SAS for specification.

#### PREPARATION

The background has to be supporting and free from dust, loose particles, damp and other pollution which can be of disadvantage to the bonding. Protect fresh render work against weather influences.

Cover parts which do not have to be treated with ProRend Lite with paper and tape. Remove them directly after application of finish.

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### APPLICATION

Mix into a homogenous mass with approximately 7.2 litres of water per 20kg bag and apply manually or mechanically.

Bonding insulation boards:

Apply the coat of ProRend Lite to the rear of the insulation board with a combing-trowel (size 10 x 10mm), such that the trails of ProRend Lite have a thickness of 10 mm. The entire rear face of the insulation board must be covered with ProRend Lite.

Applying ProRend Lite - ProMesh coat:

Apply ProRend Lite evenly with a hawk and trowel, embed the ProMesh Grade 3, with an overlap of at least 10 cm in the mortar, and smooth down using a trowel or spatula, apply a second coat of ProRend Lite if required so that the total thickness is approx. 5-6 mm. Ensure that ProMesh Grade 3 is fully embedded over entire elevations.

### CURING

Curing with clean water may be necessary during rapid drying conditions.

### HEALTH & SAFETY

Refer to material safety data sheet for full details of safety measures

### TECHNICAL DATA

Grain size:	~1 mm
Water-mortar proportion:	~7 l/20 kg
Bulk density:	~0.9 kg/m <sup>3</sup>
Set mortar density:	~1.0 kg/m <sup>3</sup>
Compressive strength:	~4.0 N/mm <sup>2</sup>
Bending resistance:	~1.9 N/mm <sup>2</sup>
E-module:	~3000 N/mm <sup>2</sup>
Reaction to fire:	A2
Water absorption:	W2
Water vapour permeability $\mu$ :	5/20
Water vapour diffusion coefficient:	15/35
Thermal conductivity $\lambda$ :	0.39 W/mK (P=50%) 0.43 W/mK (P=90%)

*nb. Subject to alteration due to technical developments.*

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## Technical Data Sheet

# PROMESH

### DESCRIPTION

Reinforcing mesh for render and plaster.

### COMPOSITION

Glass fibre.

### CHARACTERISTICS

Flat pressed, alkaline and tear resistant fibreglass mesh.

### GRADES

5 Grades (2 internal and 3 external).

### PACKAGING

Shrink wrap/boxes.

### LENGTH

50m (internal grades – 100m).

### STORAGE

Keep dry and away from chemicals

### BS EN 13914-1:2005

Design, preparation and application of external rendering and internal plastering should be followed at all times.

### SITWORK

Scaffolding must be independently tied, to allow uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration, must be rectified.

### SITE CONDITIONS

Temperature range, 5 - 30 degrees centigrade. ProMesh must not be applied to renders over frozen or thawing substrates.

### SUBSTRATE

ProMesh can be applied to all building substrates.

### PREPARATION

The background has to be supporting and free from dust, loose particles, damp and other pollution which can be of disadvantage to the application. Protect fresh render/plaster applications against weather influences.

### APPLICATION

Embed ProMesh into fresh/wet render or plaster

### CURING/DRYING

N/A

### HEALTH & SAFETY

Refer to material safety data sheet for full details of safety measures.

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### TECHNICAL DATA

#### Grade 1

Roll size:	1m x 100m
Weight:	70 g/m <sup>2</sup>
Mesh aperture:	4mm x 4mm
Warp tear strength:	200 N/cm
Weft tear strength:	200 N/cm

#### Grade 2

Roll size:	1m x 100m
Weight:	110 g/m <sup>2</sup>
Mesh aperture:	5mm x 5mm
Warp tear strength:	310 N/cm
Weft tear strength:	356 N/cm

#### Grade 3

Roll size:	1m x 50m
Weight:	160 g/m <sup>2</sup>
Mesh aperture:	3mm x 3.5mm
Warp tear strength:	440 N/cm
Weft tear strength:	500 N/cm

#### Grade 4

Roll size:	1m x 50m
Weight:	130 g/m <sup>2</sup>
Mesh aperture:	9.5mm x 9.5mm
Warp tear strength:	400 N/cm
Weft tear strength:	380 N/cm

#### Grade 5

Roll size:	1m x 50m
Weight:	210 g/m <sup>2</sup>
Mesh aperture:	5mm x 5mm
Warp tear strength:	530 N/cm
Weft tear strength:	550 N/cm

*nb. Subject to alteration due to technical developments.*

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## Technical Data Sheet

# PROREND COLOURTEX UNIFORM

### DESCRIPTION

ProRend Colourtex Uniform is a ready mixed silicone based finish, manufactured from fine natural and coloured aggregates. ProRend Colourtex Uniform is a textured finish that has excellent weather, scratch and knock resistant qualities. Maintenance is therefore minimal. ProRend Colourtex Uniform contains carefully selected and blended raw materials giving a consistently durable and high quality product.

### COMPOSITION

Fine natural and coloured aggregates in a silicone binder give excellent adhesion and weatherproofing. ProRend Colourtex Uniform contains effective biocides to help preserve its attractive appearance.

### CHARACTERISTICS

ProRend Colourtex Uniform can be finished in a uniform, flat texture to a thickness of 1.5. ProRend Colourtex Uniform resists the penetration of rain water. ProRend Colourtex Uniform has excellent weather resistance and durability, whilst still allowing the structure to breathe.

### COLOURS

12 Standard colours plus RAL, NCS, BS 4800, Sto, K Rend and Weber colour matches.

### REFLECTIVE VALUES

Where intense or dark colours are used, the surface will be subject to increased thermal stress from (for example) solar radiation. Significant fluctuations in temperature, as experienced in temperate weather climates, will cause premature degradation in the finished surface. The dissipation of this heat will vary dependent upon the background and accordingly "reflective values" should be adhered to as follows:

- ProWall or other ventilated cement board systems > 5% clarity
- Strikotherm or ProRend EIFS insulation systems >20% clarity
- Masonry backgrounds
  - Solid Wall > 20% clarity
  - Cavity Wall > 5% clarity

Further advice is available from SAS (Europe) Ltd Technical Team based upon the specific colour nominated.

### PACKAGING

17kg Tubs  
44 Tubs per pallet

### COVERAGE

~6.5m<sup>2</sup> per tub

### THICKNESS

1.5mm

### STORAGE

Store in cool, dry conditions at temperatures greater than 5°C. Protect from sunlight and sources of direct heat. The container should be kept closed when not in use. Do not stack more than four containers high

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### BS EN 13914-1:2005

Design, preparation and application of external rendering and internal plastering should be followed at all times.

### SITWORK

Scaffolding must be independently tied, to allow uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration, must be rectified.

### SITE CONDITIONS

Temperature range, 5 - 30 degrees centigrade. ProRend Colourtex Uniform must not be applied to frozen or thawing substrates. If the coating must be applied in adverse weather conditions, it is essential to protect both the working area and finish before and after application.

### SUBSTRATE

ProRend Colourtex Uniform may be applied to primed, new or old substrates. Externally, ProRend Colourtex Uniform may be applied to suitably smooth and flat surfaces of cement based rendering, fair faced concrete, exterior grade composition and cement boards, however ProRend Float or Lite is the recommended substrate.

Additional surfaces (for internal application only), are suitably smooth and flat plasters, gypsum finishing plasters, dry lining and suitable insulating boards.

This list is not exhaustive and other surfaces such as brickwork/blockwork may be coated after they have been provided with the necessary preparation work, please consult our Technical Team for advice.

### PREPARATION

The background has to be supporting and free from dust, loose particles, damp and other pollution which can be of disadvantage to the bonding. Protect fresh render work against weather influences.

### PRIMING

Externally, all surfaces should receive a coat of ProRend Colourtex Primer and be allowed to dry fully.

Internally, surfaces should be primed with ProRend Colourtex Primer unless the surfaces are chalky or friable where necessary cleaning and making good should be carried out prior to the application of ProRend Colourtex Primer. All applications of coloured primer should be in the colour closest to the decorative finish.

Exceptionally poor surfaces may need special treatment. Our Technical Support Team will be pleased to advise.

### APPLICATION

It is essential that ProRend Colourtex Uniform is mixed before use. Add a maximum of 2% water to the material and mix thoroughly. An electric hand mixer (such as a drill and whisk) should be used to achieve good workability.

PRODUCT OF DIFFERENT BATCH NUMBERS SHOULD **NOT** BE USED ON THE SAME ELEVATION. ALL BUCKETS SHOULD BE INTERMIXED.

ProRend Colourtex Uniform should be applied by an applicator with experience with this type of product.

ProRend Colourtex Uniform should be applied to the backing by traditional methods. A tight coat to the thickness of the largest aggregate within the material is applied using a stainless steel hawk and trowel. A flowing edge should be maintained. Do not interrupt application until a complete section is finished. After approximately 10-30 minutes, depending on the drying conditions, the material is finished by rubbing with a smooth plastic float. Externally, under rapid drying conditions, finishing may be required sooner. Any splashes should be removed with clean water immediately as work progresses.

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ProRend Colourtex Uniform can also be sprayed using suitable machinery (contact our Technical Team for further details).

### VARIATIONS

The actual colour of the product should be verified against that which has been specified. Natural variations which occur in raw materials can lead to differences. Where more than one tub of ProRend Colourtex Uniform is needed to complete a section, or where adjoining sections are to be finished in ProRend Colourtex Uniform, the contents of all tubs needed should be mixed together. This will avoid the possibility of different shades occurring in the surface finish.

### HEALTH & SAFETY

Refer to material safety data sheet for full details of safety measures

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### PROREND COLOURTEX PRIMER

#### DESCRIPTION

ProRend Colourtex Primer is a quartz-containing, pigmented primer with stabilising capacity. ProRend Colourtex Primer can be applied both internally and externally and is an essential base component in the composition of durable ProRend synthetic bound resin render systems. ProRend Colourtex Primer provides excellent adhesion, is permanent elastic, vapour permeable and impervious to torrential rain.

#### COMPOSITION

High-quality, factory composed solvent-free primer on a base of acrylate dispersion. Quartz-containing with additives for better stabilising capacity.

#### CHARACTERISTICS

ProRend Colourtex Primer is applied on mineral backgrounds. Especially used for improved adhesion of ProRend synthetic resin bound Colourtex finishes. Always apply ProRend Colourtex Primer in the colour of the desired finish.

#### COLOURS

12 Standard colours plus RAL, NCS, BS 4800, Sto, K Rend and Weber colour matches.

#### PACKAGING

16kg Tubs  
44 Tubs per pallet

#### COVERAGE

With a substrate of ProRend Float or ProRend Rapid ~ 35m<sup>2</sup> per bucket.  
With a substrate of ProRend Prep or ProRend Lite ~ 45m<sup>2</sup> per bucket.

#### STORAGE

Store in cool, dry conditions at temperatures greater than 5°C. Protect from sunlight and sources of direct heat. The container should be kept closed when not in use. Do not stack more than four containers high

#### BS EN 13914-1:2005

Design, preparation and application of external rendering and internal plastering should be followed at all times.

#### SITWORK

Scaffolding must be independently tied, to allow uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration, must be rectified.

#### SITE CONDITIONS

Do not apply in rain or in temperatures below 5 or above 30 degrees centigrade. ProRend Colourtex Primer must not be applied to frozen or thawing substrates. If the coating must be applied in adverse weather conditions, it is essential to protect both the working area and finish before and after application.

#### SUBSTRATE

ProRend Colourtex Primer may be applied to ProRend basecoats or new smooth, flat sand and cement render

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### PREPARATION

Thoroughly remove old, dusty, dirty and loose plaster and paint layers. Remove grease and dirt with Strikolith Strikoclean. Cover parts that do not have to be treated with ProRend Colourtex Primer with paper and tape, remove them directly after applying the primer.

With internal applications: Treat strong suction and Gypsum bound backgrounds (e.g Gypsum blocks) in advance with one layer of Deep Primer. Powdering and sandy backgrounds must be treated with two layers of ProRend Deep Primer, applied wet on wet.

With external applications: Carry out repairs, depending on the kind and quality of the background, with a suitable ProRend mineral plaster. Allow a long drying time, if calcareous products have been used for repairs or plastering of the surface. Prepare with one layer of ProRend Deep Primer after complete drying.

### APPLICATION

Dilute ProRend Colourtex Primer with 5-10% tap water and apply with a block brush or roller. Drying time should be a minimum of 24 hours. Clean brushes with water after use.

### HEALTH & SAFETY

Refer to material safety data sheet for full details of safety measures

### TECHNICAL DATA

S.G.:	~1.6 g/cm <sup>3</sup>
pH value:	~7-9
Viscosity:	29000-31000m Pa.s

*nb. Subject to alteration due to technical developments.*

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