


# ROOF EXPERT



ADVANCED ROOFING SYSTEMS



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ROOFING SYSTEMS**

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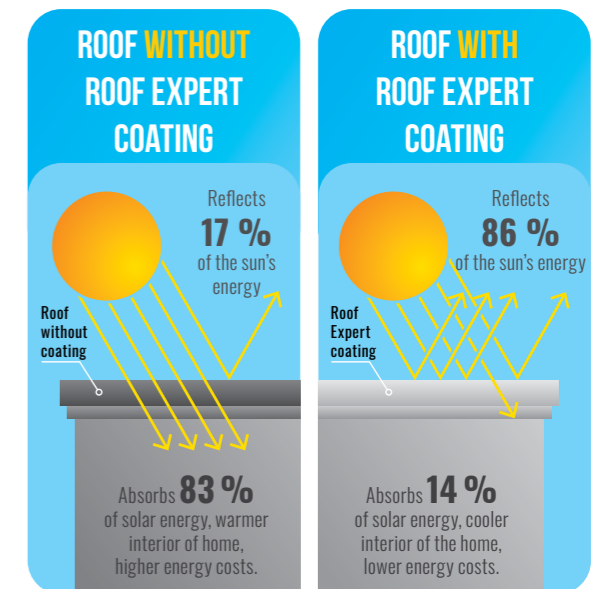
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## 1. ROOF EXPERT LIQUID WATERPROOFING AND PROTECTIVE ROOF COATINGS

ROOF EXPERT innovative systems are designed to provide durable protection for flat and inclined roofs of concrete, brick, stone, bitumen sheaths, roof tile or metal. Liquid coatings are made without joints with full adhesion to the substrate and protect it from water, moisture and UV rays. Thanks to the high reflection of solar energy, Roof expert coatings reduce the “heat island” effect in urban environments and give low temperature to the roof, thus increasing its durability.

ROOF EXPERT systems are excellent technology for new roofs and ideal solution for renovation of old ones.



COOL ROOF - ROOF EXPERT coatings (white shade)



**UV resistance/  
solar energy  
reflection**



**Elasticity and  
crack bridging**



**Longevity/weather  
resistance**



**Waterproofing/  
waterproofing**



**Easy application  
(roller/airless gun)**

## INNOVATIVE TECHNOLOGY

### 1.1. ROOF EXPERT SYSTEMS BASED ON ACRYLATE WATER DISPERSION

#### ROOF EXPERT AC

Highly flexible, environmental friendly, acrylic based membrane.

**ADVANTAGES:**

- > Highly resistant to UV aging, heat aging and temperature changes
- > Reflects 86% of solar energy
- > Easy application by roller or airless
- > Excellent adhesion on: mortar, concrete, brick, stone, existing bitumen sheaths, roof tile, metallic surfaces, etc.
- > Ideal solution for overbridging joints of different materials using an appropriate primer
- > 5–10 years working life (depending on the system)

**APPLICATION AREA:**


- > It is used to protect new and repair existing flat, inclined and curved roofs
- > Ideal flow around chimneys, ventilation exits, dilatations, etc.
- > Application: roller or airless

**COLORS AVAILABLE:** according to Chromomix tone chart

**PACKAGING:** 5 kg and 20 kg

#### ROOF EXPERT AC PROTECTION SYSTEMS FOR VARIOUS TYPES OF ROOFS

Concrete and cementitious roof substrates		
System Element	Material	Spreading rate
Substrate preparation	Roof Expert C Primer	0.20–0.25 kg/m <sup>2</sup>
Waterproof coating	Roof Expert AC	3.0 kg/m <sup>2</sup>
Reinforcement	Roof Expert Reinforce 50	1 roll/50 m <sup>2</sup>
Protective coating	Roof Expert AC	0.4–0.8 kg/m <sup>2</sup>



#### ROOF EXPERT C PRIMER

Solvent-free impregnation based on synthetic resin and additives.

**APPLICATION AREA:**

It is designed to protect concrete and cement roofing substrates, as part of a system with Roof expert AC coating.

**PROPERTIES:**

- > Penetrates deeply into the substrate
- > Equalizes the substrate's absorbency
- > Binds and strengthens the surface particles of the substrate
- > Improves the adhesion of the final coating

**PACKAGING:** 5 kg

### Metal roof substrates

System Element	Material	Spreading rate
Substrate preparation (damaged sheet metal)	Roof Expert MC Primer	0.16 kg/m <sup>2</sup> /50 µm
Substrate preparation (undamaged sheet metal)	Roof Expert M Primer	0.22 kg/m <sup>2</sup> /70 µm
Protective coating	Roof Expert AC	0.4-0.8 kg/m <sup>2</sup>



### ROOF EXPERT MC PRIMER

Anticorrosive primer based on an epoxy ester resin with active anticorrosive pigments.

#### APPLICATION AREA:

It is designed to protect damaged galvanized sheet metal roofs, as part of a system with Roof expert AC and PU coatings.

#### PROPERTIES:

- > Excellent corrosion inhibitive characteristics
- > Very good mechanical values
- > High penetration

**PACKAGING:** 5 kg and 20 kg

**COLOUR AVAILABLE:** Gray-green

### ROOF EXPERT M PRIMER

Anticorrosive primer based on acrylate aqueous dispersion with active anticorrosive pigments.

#### APPLICATION AREA:

It is designed to protect galvanized sheet metal roofs and fiber-cement (eternit) roofing substrates, as part of a system with the Roof expert AC coating.

#### PROPERTIES:

- > Excellent corrosion inhibitive characteristics
- > Excellent adhesion on galvanized steel
- > Good weather resisting
- > Fast drying

**PACKAGING:** 5 kg

**COLOUR AVAILABLE:** Green RAL 6003

### Fiber-cement (eternit) roofing substrates

System Element	Material	Spreading rate
Substrate preparation	Roof Expert M Primer	0.22 kg/m <sup>2</sup> /70 µm
Protective coating	Roof Expert AC	0.4-0.8 kg/m <sup>2</sup>



### Fiber-cement (salonit) roofing substrates

System Element	Material	Spreading rate
Substrate preparation	Roof Expert EP Primer	0.20-0.30 kg/m <sup>2</sup>
Protective coating	Roof Expert AC	0.4-0.8 kg/m <sup>2</sup>



### ROOF EXPERT EP PRIMER

Two-component ground coating on epoxy-resin polyamide-adduct basis.

#### APPLICATION AREA:

It is designed to protect concrete, plastered, and asbestos-cement roof substrates, as part of a system with the Roof expert AC coating.

It is also suitable for use in industrial environments and atmospheres with industrial pollution. Note: Comply with all legal regulations and safety

measures when working with substrates that contain asbestos!

#### PROPERTIES:

- > High penetration
- > Good resistance against mechanical stress
- > Good resistance against and chemical stress

**PACKAGING:** Component A 3 kg  
Component B 1 kg

### Bituminous roof substrates

System Element	Material	Spreading rate
Substrate preparation	Roof Expert AC + 10% water	0.25-0.30 kg/m <sup>2</sup>
Waterproof coating	Roof Expert AC	3.0 kg/m <sup>2</sup>
Reinforcement	Roof Expert Reinforce 50	1 roll/50 m <sup>2</sup>
Protective coating	Roof Expert AC	0.4-0.8 kg/m <sup>2</sup>



## 1.2. ROOF EXPERT SYSTEMS BASED ON SOLVENT-BORNE POLYURETHANE RESIN

Polyurethane based coatings represent one of the most modern solutions for waterproofing flat roofs, terraces, balconies and other surfaces exposed to extreme conditions. Thanks to their high elasticity, excellent UV resistance and long-term water tightness,

PU systems provide reliable protection and a long service life. Their crack-bridging ability, chemical resistance and easy application to complex details make them the ideal choice for projects where maximum safety and performance are required.

## ROOF EXPERT PU SYSTEM

Easy application and a permanent solution:

**ROOF EXPERT PU 510** polyurethane liquid waterproof coating, not UV-resistant to color change.

**ROOF EXPERT PU 610** polyurethane liquid waterproof finishing coating, UV-resistant to color change.

### ADVANTAGES:

- > Easy application by roller or airless
- > Fast curing, ability to rapidly become resistant to rain damage
- > Ideal solution for overbridging joints of different materials
- > Seamless, easy to repair
- > Moisture curing coating
- > 10-25 years working life (depending on the system)

### APPLICATION AREA:

- > It is used to protect new and repair existing flat, inclined and curved roofs
- > Most common applications: industrial buildings; commercial buildings; public institutions
- > All construction materials (mortar, concrete, brick, stone, existing bitumen sheaths, roof tile, metallic surfaces, etc.)
- > Application: by roller or airless

**COLORS AVAILABLE:** white and RAL 7040

**PACKAGING:** Roof Expert PU 510: 25 kg  
Roof Expert PU 610: 5 kg and 25 kg

## ROOF EXPERT PU PROTECTION SYSTEMS FOR VARIOUS TYPES OF ROOFS

### Concrete, bituminous, and asbestos-cement roof substrates

System Element	Material	Spreading rate
<b>Substrate preparation</b>	Roof Expert PU Primer	0.20-0.25 l/m <sup>2</sup>
<b>Waterproof coating</b>	Roof Expert PU system	depending on the system
<b>Reinforcement</b>	Roof Expert Reforce 50	1 roll/50 m <sup>2</sup>
<b>Protective coating</b>	Roof Expert PU 610	0.4-0.8 kg/m <sup>2</sup>



## ROOF EXPERT PU PRIMER

One component, solvent-based polyurethane primer.

### APPLICATION AREA:

It is designed to protect concrete, bituminous, and asbestos-cement roofing substrates, as part of a system with Roof Expert PU protective coating.

### PROPERTIES:

- > Penetrates deeply into the substrate
- > Equalizes the substrate's absorbency
- > Binds and strengthens the surface particles of the substrate
- > Improves the adhesion of the final coating

**PACKAGING:** 4 L

### Metal roof substrates

System Element	Material	Spreading rate
<b>Substrate preparation</b>	Roof Expert MC Primer	0.16 kg/m <sup>2</sup> /50 μm
<b>Waterproof coating</b>	Roof Expert PU system	depending on the system
<b>Reinforcement</b>	Roof Expert Reforce 50	1 roll/50 m <sup>2</sup>
<b>Protective coating</b>	Roof Expert PU 610	0.4-0.8 kg/m <sup>2</sup>



## ROOF EXPERT – LIQUID WATERPROOFING

### Properties:

- > Excellent crack bridging ability
- > No penetration through construction
- > Durable, impermeable, without seams or joints, easy to repair
- > Excellent mechanical resistance
- > Excellence weather resistance
- > Easy application
- > High elasticity
- > Water-vapor permeable
- > High reflection of solar energy
- > Variety of shades

### Substrate preparation:

- > Remove all impurities, grease, dust
- > Remove any loose particles
- > Remove any old paints and oils
- > Substrates must be mechanically prepared by high-pressure washing or sanding



**ROOF EXPERT AC i PU coatings are tested according to EN 1504-2 coating (C) principles PI, MC and IR.**



## 2. ROOF EXPERT METAL ROOF PROTECTION SYSTEMS

Roof Expert metal roofs protective coatings ensure long-term resistance of sheet metal surfaces to corrosion, moisture, UV radiation, temperature changes and chemical influences from the atmosphere. A properly selected coating adheres very well to the substrate, prevents substrate deterioration and extends the life of the roof.

Roof Expert protective coatings provide mechanical resistance and stable color, making the roof permanently protected and aesthetically attractive.

### ROOF EXPERT AQUA ROLLDIRECT

Waterborne acrylic finishing topcoat with silky matte effect filled with mica pigments.

#### APPLICATION AREA:

Finishing coat for the protection of galvanized sheet metal roofs, designed for direct application to the metal without a primer.

#### PROPERTIES:

- > Good weather resisting
- > Good colour stability
- > Good gloss stability



**SPREADING RATE:** theoretical - 217 g/m<sup>2</sup>/70 µm (RAL 6003)

**PACKAGING:** 12 kg

**COLORS AVAILABLE:** according to RAL-Colour chart

### ROOF EXPERT ROLLDIRECT

Finishing coating based on modified acrylic resin with a slightly matte appearance filled with mica pigments.

#### APPLICATION AREA:

Finishing coat for the protection of galvanized sheet metal roofs, designed for direct application to the metal without a primer.

#### PROPERTIES:

- > Good weather resisting
- > Reliable and economic coating



**SPREADING RATE:** theoretical - 228 g/m<sup>2</sup>/80 µm

**PACKAGING:** 5 kg and 20 kg

**COLORS AVAILABLE:** according to RAL-Colour chart

### ROOF EXPERT DS COATING

Solvent-borne acrylic resin finishing coating formulated with mica-effect pigments.

#### APPLICATION AREA:

Designed for the protection of galvanized steel sheet roofs in combination with the Roof Expert MC Primer.

#### PROPERTIES:

- > Good weather resisting
- > Good resistance against chemical stress
- > Good resistance against mechanical stress



**SPREADING RATE:** 150 – 170 g/m<sup>2</sup>/one coat

**PACKAGING:** 5 kg and 20 kg

**COLORS AVAILABLE:** according to RAL color chart



### 3. ADDITIONAL MATERIALS

#### ROOF EXPERT REFORCE 50

ROOF EXPERT REFORCE 50 is used as reinforcement with the liquid applied waterproofing coating Roof expert AC, Roof Expert PU 510 i Roof expert PU 610.

**PROPERTIES:**

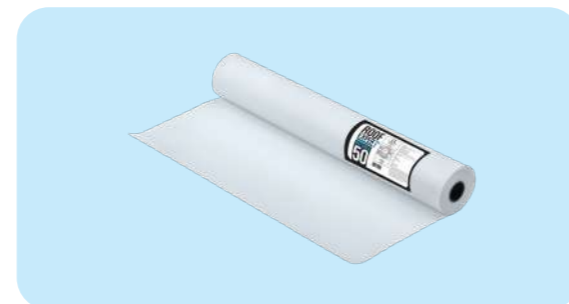
- > Good dimensional stability
- > Excellent resistance to UV light
- > High mechanical strength
- > Chemically inert and non toxic
- > Ensures the correct thickness of waterproofing layer
- > Ensures the crack bridging properties of the waterproofing layer

**TECHNICAL DATA:**

- > Colour White
- > Weight 50 g/m<sup>2</sup>
- > Thickness (mm) 0,48
- > Tensile strength N/5cm 160 (longitudinal direction)
- > Tensile strength N/5cm 120 (transverse direction)

**PACKAGING:**

Rolls in width 100 cm/lengths 50 m, palette 33 rolls=1650 m<sup>2</sup>



#### ROOF EXPERT AQUA CLEANER

Alkaline cleaning concentrate.

**APPLICATION AREA:** Suitable for cleaning weathered, coated surfaces to reactivate the old coating, as well as removal of all kind of contaminations. Mixing Ratio with water 1 : 5 – 1 : 20.

**PROPERTIES:**

- > VOC-free
- > Biodegradable

**SPREADING RATE:**

300 ml/m<sup>2</sup> of mixture

**PACKAGING:** 5 L



#### ROOF EXPERT TPO PRIMER

One-component, solvent-based primer.

**APPLICATION AREA:** Primer for improving adhesion between TPO/FPO membranes and Roof Expert PU coating.

**PROPERTIES:**

- > One-component - easy and ready to use
- > Low consumption
- > Fast drying - overcoating possible after max 1 hours

**SPREADING RATE:** 70-140 ml/m<sup>2</sup>

**PACKAGING:** 1 L



#### ROOF EXPERT PVC PRIMER

One-component, solvent-based polyurethane primer.

**APPLICATION AREA:** Primer for improving adhesion between PVC membranes and Roof Expert PU coating.

**PROPERTIES:**

- > One-component - easy and ready to use
- > Low consumption
- > Fast curing - overcoating possible after max 2 hours

**SPREADING RATE:** 70-100 ml/m<sup>2</sup>

**PACKAGING:** 1 L









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