RENOLIT

Rely on it.

RENOLIT POLIQUID

Liquid waterproofing

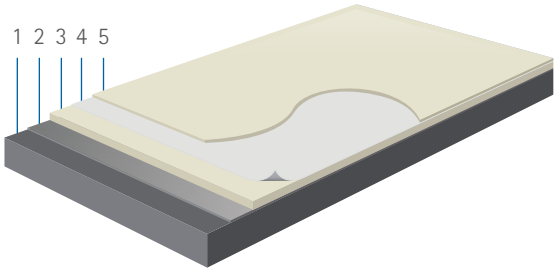
EXCELLENCE
IN ROOFING

RENOLIT POLIQUID liquid waterproofing

RENOLIT POLIQUID is a two component, fast-curing, PMMA resin-based, polyester-fleece reinforced, liquid waterproofing system; especially created for waterproofing difficult roof details.

LAYER STRUCTURE:

1. Surface
2. **RENOLIT** POLIQUID combi-primer*
3. First layer **RENOLIT** POLIQUID Detail
4. **RENOLIT** POLIQUID fleece
5. Second layer **RENOLIT** POLIQUID Detail



* Please consult the table for primer application, in case of doubt please contact the technical department of **RENOLIT**.

Extensively tested in combination with **RENOLIT** ALKORPLAN and **RENOLIT** ALKORTEC roofing membranes

ADVANTAGES

EASY APPLICATION

- Excellent adherence with the most common building materials
- Short curing times (rainproof after 30 minutes)
- Usable almost all year*
- Suitable for installation up to high relative humidity (≤90%)

* For more information see Product information page 5.

PHYSICAL CHARACTERISTICS

- Optimal physical characteristics. (Prolonged flexibility, high fatigue resistance, high impact resistance, excellent elasticity)
- Free of solvents
- Seamless joints
- Crack bridging (≤ 2 mm)
- High UV- and Chemical resistance
- Shelf life of 12 months

CERTIFICATES

- BBA and ETAG005 certified (ETA-16/0391)
- FLL approved
- Reaction to fire E (EN 13501-1)

RENOLIT POLIQUID Application

Universal application

RENOLIT POLIQUID has a multitude of applications on flat roofs. The PMMA resin can be used in combination with the most current roof and building materials. In many cases the use of a primer is unnecessary.

The following table shows where a primer is required. Please contact the Technical Department of **RENOLIT** if in doubt about the need for a primer.

Substrate	Primer
SBS (Bituminous roofing material)	None
APP (Bituminous roofing material)	**RENOLIT** POLIQUID combi-primer
Concrete	**RENOLIT** POLIQUID combi-primer
RENOLIT ALKORPLAN (PVC-P single ply)	None
RENOLIT ALKORTEC (EVA/EBA single ply)	None
Polyester	None
Wood	**RENOLIT** POLIQUID combi-primer
Metal (steel, aluminium, copper, zink,...)	None
Hard PVC	None
Bitumen with mineral granules	None

CURRENT APPLICATIONS ON FLAT ROOFS:

- Sealing of roof edges, roof lights, gutters, roof outlets, ...
- Sealing of non-compatible materials in case of partial renovations.
- Waterproofing of complex roof details where no prefabricated accessories are available.
- Long lasting/permanent repairs of existing roof materials .

Use throughout the year!

RENOLIT POLIQUID can be installed almost all year, taking into account the ambient temperature, material and surface, and the dew point (see technical data sheet and **RENOLIT** POLIQUID installation guide). Depending on the temperature of the substrate, more or less catalyst is added to the PMMA resin to allow a first rate homogeneous cure. In general, there will be 2% catalyst in the mixture (resin / catalyst) at temperatures between 10°C and 40°C. At lower temperatures this ratio can be up to 4% catalyst.

Reduced curing times

A detail or seal completed with **RENOLIT** POLIQUID is rainproof after 30 minutes.
Even with the use of the **RENOLIT** POLIQUID combi-primer, the dry- and waiting times are reduced to a minimum. The installation of the liquid waterproofing can be carried out in most cases within 1 day. The installation of **RENOLIT** POLIQUID is therefore less dependent on weather conditions, with the final result being quick and easy to control.

rainproof after 30 minutes | can be walked upon after 1 hour | completely cured after 3 hours

Sealing of a roof outlet

Sealing of the connection between PVC-waterproofing and bituminous waterproofing

RENOLIT POLIQUID Product Information

RENOLIT POLIQUID Detail (RENOLIT ALKORPLUS 81800-001)

Material	PMMA-resin
Application	Sealing of roof details, joins
Consumption	2.5 kg/sqm, standard thickness 1.7 mm
Shelf life	12 months (+5°C to 30°C)
Curing	30 min rainproof, 3 hours complete curing
Colour	Pebble grey (RAL 7032)
Packing unit	10 kg (container)

Product	Temperature		
RENOLIT Poliquid Detail	Air	Surface	Material
	-5°C to +35°C	+3°C to +50°C*	+3°C to +30°C

*The surface temperature should be at least 3°C above dew point during application and curing.

! Always activate with the **RENOLIT** POLIQUID catalyst

TECHNICAL DATA RENOLIT POLIQUID 81800-001 ACCORDING TO ETAG 005

Water vapour diffusion resistance (μ)	± 4330
Resistance to wind loads	≤ 50 kPa
Resistance to flying sparks and radiant heat	F_{ROOF} (EN 13501-5)
Reaction to fire	Class E (EN 13501-1)
Application areas according to ETAG 005	
Life expectancy	W3 (25 years)
Climate zones	M and S (moderate and severe)
Imposed loads	P1 to P3
Roof slope	S1 to S4
Maximum surface temperature	TH3 (80°C)
Minimum surface temperature	TL3 (-20°C)

RENOLIT POLIQUID catalyst (RENOLIT ALKORPLUS 81801-001)

Material	Peroxide (powder)
Application	Hardener for 81800-001 (**RENOLIT** POLIQUID Detail) and 81802-001 (**RENOLIT** POLIQUID combi-primer)
Shelf life	12 months
Packing unit	100 gr (pack)

RENOLIT POLIQUID combi-primer (RENOLIT ALKORPLUS 81802-001)

Material	PMMA based
Consumption	0.5 kg – 0.8 kg/sqm
Shelf life	12 months
Curing	30 min rainproof
Packing unit	5 kg (container)

Product	Temperature		
RENOLIT POLIQUID combi-primer	Air	Surface	Material
	-5°C to +35°C	+3°C to +50°C*	+3°C to +30°C

*The surface temperature should be at least 3°C above dew point during application and curing.

! Always activate with the **RENOLIT** POLIQUID catalyst

RENOLIT POLIQUID fleece (RENOLIT ALKORPLUS 81803)

Material	Synthetic PES-fleece, 110 g/sqm	
Roll length	50 meters	
	Width	**ARTICLE**
	26 cm	**81803-001**
	70 cm	**81803-002**

Instructions for the application of RENOLIT POLIQUID

Working material and accessories

- **RENOLIT** POLIQUID Detail
- **RENOLIT** POLIQUID catalyst
- **RENOLIT** POLIQUID fleece
- **RENOLIT** POLIQUID combi-primer
- Standard **RENOLIT** ALKORPLUS$_{81044}$ cleaner

- Scissors, tape, sandpaper
- Paint roller
- Mixing bucket and stirrer
- Protective measures
  (gloves, protective eyewear, ...)

Mixing instruction

Both **RENOLIT** POLIQUID and **RENOLIT** POLIQUID combi-primer have to be activated by means of the **RENOLIT** POLIQUID catalyst.

1. Thoroughly mix the product in the original can/drum.

2. Decide the amount of resin or primer needed. Do not mix more material than the quantity that can be installed within the curing time.

3. Add the correct amount of catalyst (see packaging label).

4. Mix thoroughly (2 to 5 min., depending on the temperature).

Instructions for the application of RENOLIT POLIQUID

Installation in six steps

1. Preparation

Ascertain the surface where the **RENOLIT** POLIQUID liquid waterproofing will be applied. Tape the edges of the area in order to achieve a neat finish of the roof detail.

Cut the polyester **RENOLIT** POLIQUID fleece to size before activating the product. To obtain optimal adhesion of the **RENOLIT** POLIQUID product, it is important that the substrate is first roughened (abraded) and then cleaned using our standard **RENOLIT** ALKORPLUS$_{81044}$ cleaner.

2. Application combi-primer

When required apply the RENOLIT POLIQUID combi-primer. Activate the product according to the mixing instructions and uniformly apply the combi-primer at the minimum consumption rate of 0.5 kg per sqm. Allow a minimum drying time of 30 minutes for the primer.

3. Application of the first layer RENOLIT POLIQUID resin

Activate the product according to the mixing instructions and uniformly apply a first layer of liquid sealant by means of a paint roller. At the minimum consumption rate of 1.5 kg per sqm.

4. Install the polyester fleece for reinforcement

Place the polyester reinforcement fleece already cut to size into the first layer of the resin. The polyester fleece needs to be fully saturated with PMMA resin (no air bubbles). Also apply the product between the overlaps.

5. Apply the second layer of RENOLIT POLIQUID resin

Uniformly apply a second layer of **RENOLIT** POLIQUID PMMA by means of a paint roller. Using a minimum consumption of 1.0 kg per sqm. The second coat can be applied without having to wait for the curing of the first layer of **RENOLIT** POLIQUID (wet-on-wet principle). This second layer of PMMA must cover the polyester fleece in its entirety to avoid moisture absorption by the fleece.

6. Remove the masking tape

Remove the masking tape before the **RENOLIT** POLIQUID product has hardened. After 30 minutes the **RENOLIT** POLIQUID product is rainproof. Depending on the temperature, the **RENOLIT** POLIQUID system will be completely cured after three hours.

WWW.RENOLIT.POLIQUID.COM - WWW.RENOLIT.COM/ROOFING

The **RENOLIT** POLIQUID liquid waterproofing is BBA certified.

RENOLIT ALKORPLAN roofing products and system have a standard guarantee of 10 years, and are installed by approved contractors and installers who are trained and assessed by **RENOLIT.**

The **RENOLIT** POLIQUID liquid waterproofing is part of the product/ system guarantee.

The **RENOLIT** POLIQUID liquid waterproofing is ETAG 005 certified.

ETA - 16/0391

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