

Acoflex 600

Polyurethane-based Waterproofing Membrane
 “ Super Elastic “

Product description

Acoflex 600 is a 1-component waterborne Polyurethane waterproofing membrane used for waterproofing roofs and walls.

After application and curing, **Acoflex 600** will form a waterproofing membrane with high tensile strength and elongation at break of about 600%, the ability to bridge cracks over 2mm, good UV resistance and durability in all weather conditions.

White **Acoflex 600** also has the ability to reflect sunlight and reduce the temperature inside the house.

Application

- Concrete roofs with protective tiles, mortar or exposed ceilings
- Balconies, domes, corrugated iron, cement, tiled roofs
- Direct waterproofing on constructed surfaces with Bitumen asphalt products that is aging, cracked and leaking
- Waterproofing, covering cracks in walls and joints between two houses.



Advantage

- UV resistant
- Resistant to diluted acids and alkalis
- Can be applied on moist surfaces
- High adhesion strength, good adhesion to material surfaces such as: concrete, mortar, iron, steel, wood, plastic, stone and terracotta surfaces
- Can be touched drying time early
- Waterborne product do not pollute the environment and the health of construction worker.



Technical specification

Appearance	High viscosity liquid
Color	White, grey, green and brick-red
Explosive	Non-flammable
Packaging	5kgs or 20kgs per container
Expiry time	12 months
Storage	Store in a cool & dry place, temperature over 5°C Do not expose to direct sunlight for a long time



Material consumption

Depend on the thickness of the membrane:

- Primer layer (mixed with 20% water): about 0.2 kg/ m²/ layer
- Coating without fiberglass mesh: about 0.4 kg/ m²/ layer, apply at least 2 layers
- Coating with fiberglass mesh: about 0.7 kg/ m²/ layer, apply at least 2 layers.

Safety and health protection

- Work in a well-ventilated area
- Keep away from children
- Wear gloves, mask and goggles when working
- Avoid contact with skin and eyes

If splashed into eyes: Rinse eyes with clean water for at least 10 minutes and seek medical attention promptly

If splashed into skin: Wash immediately with soap and clean water.

Using instruction

Surface preparation

- Remove all contaminants that will affect the adhesion of **Acoflex 600** such as grease, surface curing agents and concrete chips, cement dust, mud, moss, etc. The best method for cleaning large surfaces is using a grinder and high pressure water jet
- The concrete surface must be clean, flat and hard to be able to apply a uniform thickness
- For uneven surfaces, they must be repaired before construction:
 - Large cracks must be filled with repair mortar containing **Acobond A33** additive
 - Expansion joints must be filled with **Elastoseal P100** joint sealant
- Concrete and masonry surfaces can only be constructed after 07 days.

Note:

- Wipe off dust and dirt on the lid when opening
- Open the lid and stir well before use
- Do not apply on surfaces that are too dry due to heat and radiation. The surface must be saturated with water to cool down before application
- Do not apply when it is raining or the surface has puddles of water
- **Acoflex 600** layer must be protected from water before it is completely dry
- Do not pour back into the container any excess that has been contaminated or mixed with water
- Close the lid after use; use up as soon as possible.

Construction

• Bonding primer:

➤ **Surfaces with high water absorption** (low grade concrete, mortar...):

Dilute **Acoflex 600** with 20 - 30% clean water for primer.

➤ **Surfaces with low water absorption** (high grade concrete, quartz tiles, corrugated iron roofs...):

Use **Acobond A530** or **Acopox 616** (used when using fiberglass mesh) for primer.

• Waterproofing layer:

- After the bonding primer is dry, apply the first layer of undiluted **Acoflex 600** directly onto the primer surface, wait for it to dry and continue applying the second or third layer according to the waterproofing condition
- The corners between the wall and the floor, wall and wall should be covered with fiberglass about 15cm wide to enhance crack resistance.

• Waterproofing for wall:

Dilute **Acoflex 600** with 10% clean water, use a roller to roll 2 layers on the wall to seal all cracks and waterproof.

Cleaning tools

Clean tools and equipment with clean water before drying.

Physical parameter

Test criteria	Results	Standard
Water permeability under hydrostatic pressure (Acoflex 600 membrane layer 1.2mm thick)	Impermeable (1.5 bar for 7 days)	BS EN 14891 – 2012
Adhesion strength at ordinary condition	≥ 0.5 MPa	
Adhesion strength after soaking	≥ 0.5 MPa	
Adhesion strength after heat aging	≥ 0.5 MPa	
Ability to bridge cracks at ordinary temperatures	≥ 2.0 mm	
Elongation at break	≥ 600%	ASTM D 412
Tensile breaking strength	≥ 2.0 MPa	ASTM D 412
Shore A hardness	≥ 50	ASTM D 2240
Can be touched drying time	≤ 2 hrs	ASTM D 1640

For any information related to the product, please contact adchem's sales or the technical department.