

# WATERPROOFING FOR ROOFS

# TECHNONICOL N° 21

## Description of material

TECHNONICOL N° 21 is a liquid rubber, ready to use material suitable for repair works or for waterproofing of entire roofs and details. Material consists of oil bitumen modified by artificial polymers, mineral fillers and organic solvent. After drying, material forms highly strong and elastic covering, highly resistant to temperature changes, considerably increasing the service life of the protected surfaces.

## Application areas

TECHNONICOL N° 21 application areas:

- Entire roof waterproofing including details and parapets
- Waterproofing of engineering structures (basements, footings, piles and other building elements buried under ground likely to be in contact with damp environment)
- Weatherproofing and anti-corrosion treatment of metal surfaces including pipelines and car bodies.

## Method of application

TECHNONICOL N° 21 mastic should be applied to prepared surface clear of any debris and surplus materials, mastic can be applied by using stiff paint brush, filling knife or by pouring and leveling.

Single layer thickness should not exceed 1.5 mm, each subsequent layer must be applied after previous layer is completely dry. It is highly recommended to apply minimum of 2 layers, to achieve durable waterproofing.

## Advantages

- Ready to use
- Tough and highly elastic product
- Can be used at temperatures below 0°C
- Significantly prolongs service life of protected structures



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## Basic physical and mechanical properties

Property	Value	
Drying time at 20°C, h, no more than	with concrete	0,6
	with metal	0,9
Strength of adhesion between layers, MPa, not less than:	roll-fed material – roll-fed material	0,3
	roll-fed material – concrete	0,4
Shear strength of glued bond, kN/m, not less than	4	
Nominal strength, MPa, not less than	1	
Specific elongation when broken, %, not less than	500	
Water absorption over the course of 24 h, % by weight, not less than	0,4	
Mass fraction of non-volatile substances, %, not less than	50	
Heat endurance, °C, not less than	110	
Flexibility on R=5.0±0.2 mm beam at -35°C	no cracks	
Water resistance during 24 h at a pressure of 0.1 MPa	withstands	

## Consumption

for mastic roof installation — 3.8–5.7 kg/m<sup>2</sup>;  
for waterproofing installation — 2.5–3.5 kg/m<sup>2</sup>.

## Storage

Store in a dry place protected against sunlight at a temperature between -20°C and +30°C.  
Guaranteed storage period — 18 months.

## Packing

Bucket 3, 10 and 20 liters.

