

ARMEX DURAGRID GEO-T Composit waterproofing membrane Technical Data Sheet

**Compound
APP / SBS**

**Flexibility
-10**

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ARMEX DURAGRID GEO-T is a multi-reinforced thermo adhesive composite bituminous membrane with elasto-plastomers used for waterproofing and reinforcing of asphalt pavement.

The membrane can be used for either roads or runways rehabilitation, and in the case of new execution works, between the base layer and the attrition tarmac layer.

ADVANTAGES

Waterproofing system

It blocks the water ascension from the groundwater through the base layer towards the road surfacing attrition level. The water, by repeated freezing-thawing cycles deteriorates the road structure in time at the level of the region separating the two layers. It blocks the access of water accumulated inside the possible cracks in the attrition layer to the base layer of the road, under the pressure exerted by the cars wheels. The water can generate horizontal shearing stress or cracks cleavage strains. The system is thus constituted as a waterproof layer, giving the time to the foundation bed to sew the water and to the attrition layer to evacuate the water by evaporation.

Reinforcing system resistant to mechanical stress

Reduces or blocks the propagation of cracks inside the support layer of the road towards the attrition layer by taking the existing efforts in the separation layer and preventing the formation of new cracks. The reinforcement used and specifically designed for this product has outstanding mechanical characteristics, especially strength, elongation at breaking as well as static load.

Increases the ability of the structure to take on tensile strength

Easy and automatic application of the membrane by thermo-adhesion

Easy application and the membrane self-fixing by thermal adherence and easy superposition of lateral and end sides by the displacement of the protection siliconised film

Perfect cohesion inside the road surfacing structure due to the special composition of the bituminous mass and of the used thermally active additives

The use of a protection material, synthetic polypropylene mat

- uniformly distributes the applied loads
- increases the cohesion of particles from the asphalt mass with the membrane
- protects the membrane after application

Reduces working time - After fixing the membrane upon the supporting layer, asphalt machinery traffic is permitted.

Road maintenance savings estimated to at least 50%

ARMEX DURAGRID GEO-T30 / GEO-T40

Product data sheet

Name	Multilayer adhesive composite diaphragm, for waterproofing and reinforcing the road surface
Bituminous compound	Distilled bitumen, APP and SBS polymer additives, weather-resistant and compatibility additives
Roll length, m	7 - 10
Roll width, m	1
Thickness, mm	2; 2,5; 3; 4
Weight, kg, /mp	between 2,5 – 5 kg
Resistance at low temperatures, °C	-10
Reinforcement	PES spunbond nonwoven + grid + fiberglass fabric
Breaking resistance kN/m	30 for T30; 40 for T40
Elongation at breaking L/T,%	3
Dimensional stability, % maximum	0,1
High-temperature stability, °C min.	150
Static load, min. kg	30