# ARCO VAPOR BARRIER waterproofing membrane

**Compound APP**

**Flexibility -5**

**Technical Data Sheet**

*rev. 08/2015*

## DESCRIPTION

**ARCO VAPOR BARRIER** is a membrane based on distilled bitumen modified with plastomer polymers (APP). The reinforcement is a root proof glass fiber mat with longitudinal threads also coupled to an aluminum foil of 35 microns. The aluminum foil acts as a barrier against vapor migration or condensation from the substrate. The membrane composition offer excellent adhesion, elasticity, cold flexibility (-5℃), while the aluminum foil associated with the glass mat increases its stability and mechanical resistance.

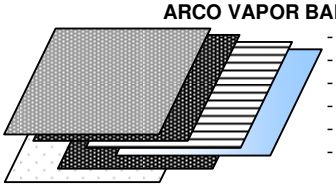
**ARCO VAPOR BARRIER** membranes are manufactured with sand finish or TNT (non-woven polypropylene) on the top. The TNT finish is designed to protect the membrane at the same time giving an aesthetic application.

The lower face of **ARCO VAPOR BARRIER** is backed by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself. The correct application temperature is visible from the embossed surface of the membrane which is below the burn off film, when the correct temperature is reached, this embossment melts also helping vapor diffusion and avoiding blistering.

**APPLICATIONS**: industrial and civil works under insulation (mineral wool, EPS) to ensure complete protection from vapor permeability, concurrent with the primary function of waterproofing.

| Technical characteristics | U.M. | ARCO VAPOR BARRIER | Tolerances |
|---|---|---|---|
| Reinforcement | | Glass fiber + aluminum 35 µm | |
| Roll length (EN 1848-1) | m | 10 | ± 0,2 % |
| Roll width (EN 1848 –1) | m | 1 | ± 1 % |
| Nominal thickness (EN 1849-1) | mm | 3; 4 | |
| Nominal weight (EN 1849 – 1) | Kg/m$^2$ | 3; 4 | ± 7 % |
| Cold flexibility (EN 1109 ) | °C | -5 | - |
| Tensile strength (EN 12311-1) | | | ± 20 % |
| -longitudinal | N/ 5 cm | 500 | |
| -transversal | | 350 | |
| Ultimate elongation (EN 12311-1) | | | ± 20 % |
| -longitudinal | % | 2 | |
| -transversal | | 2 | |
| Dimensional stability (EN 1107 –1) | % | 0,1 | max |
| Flow resistance (EN 1110) | °C | 130 | min |
| Resistance to static loading (EN 12730) | kg | 10 | min |
| Vapor permeability (EN 1931) | µ | 1,500,000 | ± 20 % |
| Watertightness (EN 1928) | Kpa | 60 | min |
| Reaction to fire (EN 13501-1) | class | F | |

**ARCO VAPOR BARRIER**



- sand / TNT
- bituminous compound
- glass fiber reinforcement
- aluminum foil
- bituminous compound
- PE burn-off film