



WATERPROOFING SYSTEMS

## GECO M.R. TEX V-200

*Composite waterproofing membrane*



### DESCRIPTION

GECO Mineral Refurb membrane (M.R.) TEX V-200 has been designed using a special formulation based on a special modified bitumen compound, with differentiated waterproofing masses, studied to be used directly on the top of the old mineral surfaced felts. The upper face compound is composed of distilled bitumen and elasto-plastomeric polymers, while the lower part compound is composed of distilled bitumen modified with special polymers that provide particular characteristics of high adhesion on the old mineral finished felt, and excellent workability. A special waterproofing mass has been formulated to bond the upper & lower compounds together. GECO M.R. TEX V-200 is reinforced with a non woven single strand glass fabric composite TEX-V 200, to grant excellent mechanical characteristics and extraordinary dimensional stability. The GECO M.R. TEX V-200 membrane is finished on the upper face with a special white mineral with good reflective capacities, besides extending the life expectancy of the membrane, it reduces heat buildup both on the external surface as well as inside the building with a reasonable savings in terms of energy consumption. The emissivity of the GECO M.R. TEX V-200 furthermore favors the dissipation of accumulated heat during the night. The lower face or application surface has a PE film finish. GECO M.R. TEX V-200 is provided with a side selvedge of 10 cm and a head selvedge of 15 cm, which favors the joining and water resistance of the sheets.

### AREAS OF USE

GECO M.R. TEX V-200 is used to refurbish old membranes self-protected with mineral slates, given the excellent characteristics of workability and adhesion to the mineral granules.

Technical Characteristics	Measure units	Reference norm	G200	Tolerance
Type of compound			Special	
Type of reinforcement			Woven fibre glass	
Upper face finish			White reflex self-protected mineral surface *	
Lower face finish			PE film	
Length	m	EN 1848-1	8 -1%	
Width	m	EN 1848-1	1 -1%	
Thickness	mm	EN 1849-1	4 on selvedge	±5%
Artificial U.V. ageing		EN 1297	Pass	
Loss mineral	%	EN 12039	30	
Cold flexibility	°C	EN 1109	-20	
Cold flexibility after ageing	°C	EN 1296 EN 1109	-15	+15°C
Flow resistance	°C	EN 1110	140	
Flow resistance after ageing	°C	EN 1296	140	-10°C
Shear resistance L/T	N/5 cm	EN 12317-1	1100/1100	-20%
Peel resistance of joints L / T	N/5 cm	EN 12316-1	50/50	-20N
Tensile strength L/T	N/5 cm	EN 12311-1	1200/1200	-20%
Elongation at break L/T	%	EN 12311-1	4/4	-15
Nail tear strength L/T	N	EN 12310-1	200/200	-30%
Static puncture resistance	kg	EN 12730	15	
Dynamic puncture resistance	mm	EN 12691	1000	
Fire resistance		EN 13501-5	F ROOF	
Fire reaction		EN 13501-1	F	
Dimensional stability	%	EN 1107-1	-0,1	
Watertightness	kPa	EN 1928	60	
Watertightness after ageing	kPa	EN 1296	60	
Vapour transmission	μ	EN 1931	20000	
S.R.I. Solar Reflectance Index	%	ASTM E-1980	Pass	
Specific heat	KJ/kg°K		1.70	
Thermal conductivity λ	W/m°K		0.170	

\* Mineral self-protected products may undergo color tone variations due to the time and length of storage. Exposure to atmospheric conditions, after application, will tend to uniform the color after a few months. The change in color tone cannot therefore be contested and / or complained of as it is a natural phenomenon that the slate manufacturer himself cannot guarantee.

# TECHNICAL DATA SHEET




## APPLICATION & RECOMMENDATIONS

- Clean the application surface.
- Apply by torch application or hot air, in correspondence to the verticals, a 25 cm strip of dual reinforced membrane.
- Position the sheets always starting from the lowest point, in order to have all the overlaps with the slope.
- When applying staggered, position the sheets alternating the overlapped areas, in order to not create joints against the slope towards the drains.
- After having positioned the sheets, re-roll the membranes to half their length, beginning the application by torching; repeat the same operation with the other half of the roll.
- It is necessary to heat the entire surface, besides the overlaps, of the lower face to obtain a full adhesion to the application surface.
- During the application by torch a mass of melted compound must form in front of the roll in order to saturate the surface porosity. The mass of melted compound is created by torching the R compound on the lower face of the membrane.
- Torch by flame or hot air the side laps (10 cm) and the head laps (15 cm) with an overlap torch. During this operation use a metal roller (15 kg) to press the overlaps and obtain a bead of melted compound. It is not necessary to iron the overlaps during this operation.
- Apply the vertical membrane sheet by overlapping on to the horizontal surface by at least 10 cm, torching by flame or hot air, pressing the joints with a trowel to obtain a bead of melted compound to finish the corners.
- The height of the vertical must be at least 15 cm more than the finished roof surface.
- Verticals higher than 20 cm must be done with dual reinforced membrane.
- The rolls are to be stored in an upright position, indoors in a dry and ventilated area, away from heat sources. Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C.
- Do not keep the product outside and at a temperature below +10°C and above +40°C except for the time strictly required for application.
- The application must be done at temperature higher than +5°C.
- The application must be interrupted in adverse weather conditions (high humidity, rain, etc.).
- The pallets on which the rolls are packaged are intended for normal warehouse use.
- The materials on stock should be rotated following a first in first out rotation.
- For information concerning storage and application of Geco membranes, please refer to the "Installation manual".

## FIELDS OF USE

### EN13707 CONTINUOUS ROOFS 0958-CPR-2045/1

CERTIFICATION 	N. LAYERS			METHOD OF APPLICATION						TYPE OF APPLICATION			TYPE			
	SINGLE LAYER	DOUBLE LAYER	MULTILAYER	TORCH	HOT AIR	MIXED (TORCH/AIR)	COLD BOND GLUE	MECHANICAL FIXING	THERMOADHESIVE / SELF-ADHESIVE	FULLY BONDED	PARTIALLY BONDED	LOOSE LAID	COMPLEMENTARY LAYER	TOP LAYER	HEAVY PROTECTION	ANTI-ROOT
<b>GECO M.R. TEX V-200</b> <b>4 MM ON SELVEDGE</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>		<b>X</b>		<b>X</b>				<b>X</b>		