



BASEMASTIC

Building Better, Safer Roads Around the World



- ARTS, LLC is an American company that provides innovative product and technology to facilitate the design and rehabilitation of the existing system of roads to lower costs and reduced construction time compared to the methods and materials conventional construction.



THE ADVANTAGES OF BASEMASTIC

- Saves more than 50% of construction time
- Saves more than 20% of the cost compared to conventional methods
- Provides strong base, waterproof and durable
- Reduced to 50% of maintenance costs
- Control and preserve dust and erosion
- FREE Environment: Non-Toxic, Non-Corrosive, Non-Allergenic, Non Flammable
- Ensure the safety of workers
- Saves 100% of the energy consumption



ARTS – TECHNOLOGY DESIGNED

- ARTS, LLC Road Composition Technology is a new approach to the construction of roads to increase their life compared to different traditional methods where the accent is put on the appearance of the visible surface coating with bituminous binder engrave on a formed base compacted without additives. This technology invests more on the earthwork to create a base layer stable, strong and impermeable to water penetration, before any choice of coating
- This stabilization is made by an addition product of Basemastic, which is a liquid polymer that will give a contribution to the flexibility base treated to prevent shrinkage cracks.



- For dirt roads with full depth reclamation (15 cm to 20 cm), depending on the weight and rate of use of the road, the technique no longer requires coating to engrave a similar duration of life monolayer made in the traditional way, with a bituminous binder
- The technology also relies on the technique of FDR (Full Depth Reclamation) to minimize the cost for providing additional materials; instead of recycling existing materials on a degraded road



Requirements:

- Geotechnical laboratory study to determine the type of soil, its mechanical and physical properties.
- A list of information to meet the exacting standards (average daily traffic, the carrier charges, annual weather conditions, drainage provisions) as applied to the construction of roads.
- Current road conditions to determine whether the contribution of materials is necessary



Procedures:

- **Step 1:** pavement surface scarified by a grader up to a depth of 15cm or 20 cm depending on the loads.
- **Step 2:** Improved soil with Basemastic on the road surface (2.0 or 3.0 Liters per m²) diluted with water in a truck with spray bar
- **Step 3:** Blend the product evenly and ensure all ingredients are distributed evenly to a depth using a grader or a recycler-mixer



- **Step 4:** Reshape the road
- **Step 5:** Finish Compaction should be done after leveling by the sheep foot vibratory compactor for maximum density and then a smooth roller compactors
- **Step 6:** Watering Product EPS on the road surface for sealing



Equipment:

- Grader Motor Grader with Ripper
- Recycler-Mixer
- Compactor sheepfoot
- Smooth roller compactor
- Water tanker



- Existing condition of the Road



- Stabilization with EPS-WT



- Finish the road after watering EPS sealing layer



- **Unpaved road treated with Basemastic**





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- **Stabilization with EPS-WT**



- **Finish the road after watering EPS sealing layer**





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Indian Wells Tennis Garden – California ----- Base made with EPS-PM50





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