

**Tokras Trading SA**

**BituBag system – Bitumen in bags**

# WHAT IS BITUBAG ?

- The BituBag is a self-stabilizing, flexible bag specially optimized for loading into 20' container and on truck.
- The BituBag system is a complete solution to make bitumen available at anytime and at any location.



# PROCESS

- The inner liner bag, containing the bitumen, is heated inside the melting unit and therefore integrated with the bitumen at the final application.
- The outer bag can be further used as construction material (e.g. as fabric for soil stabilization) or can be recycled.

The melting unit, if not already available at the client's site, can be provided, by Tokras Trading SA, for the duration of the contract / project.



# HANDLING

- The BituBag can be easily handled by a forklift by hanging the bag on its top loops.
- With a 3.5 ton forklift, 2 BituBags can be handled simultaneously



# LOGISTIC

- 1 X 20' container can be loaded with 20 BituBags of 1000 kgs each.
- BituBags can be transported by many means:
  - By sea: in container
  - By road: on open truck or in container
  - By train: in container



# STOCK MANAGEMENT

- BituBags can be stored at any available place for an extended period of time.
- Stacking up to 2 layers is possible.
- Security stock is easily available all the time on site on a less storage space compared to other solutions.



# MELTING CAPACITY & ENERGY COST

- With the melting unit provided by Tokras Trading SA, 4 tons of bitumen (4 BituBags) are ready in 1 hour against approx. 2.5 tons in 1 hour with other solutions.
- Therefore, the melting of BituBags is less expensive compared to metal drums and Bitutainers.

# QUALITY & ENVIRONMENT

- The BituBag system reduces the number of heating-cooling cycles; therefore **guarantying the bitumen quality**.
- The inner liner bag, containing the bitumen, is melt and therefore integrated with bitumen at the final application, **reducing the waste production**.
- The outer bag can be further used as construction material (e.g. as fabric for soil stabilization) or can be recycled.



# BITUBAG'S SPECIFICATIONS

- Dimensions of full bag: approx. 117x117x95 cm
- Weight: up to 1000 kg per bag
- Material
  - The outer bag is made out of woven Polypropylene flexible fabric
  - The inner liner bag (containing the bitumen) is made out of meltable Polyethylene film
- It is resistant against rain and ultraviolet radiation
- No heating energy is required during storage and transport process