

## 1. Product Profile

StenMix® AER is an air entraining additive for controlled dispersion of micro air bubbles in concrete which increases resistance to freeze and thaw cycles.

StenMix® AER conforms to requirements of TS EN 934-2 T5 (Air Entraining Additive for Concrete) and ASTM C260 (Standard Specification for Air Entraining Admixtures for Concrete)

StenMix® AER is available in 200 kg drums and 1,000 kg IBCs.

## 2. Uses

StenMix® AER can be used at concrete highways, airports, runways and terminals, mass concrete structures such as dams and water reservoirs. Additionally, it can be used with mass, reinforced or non-reinforced light weight or normal weight concrete.

StenMix® AER is especially suitable for obtaining concrete with high workability and durability, improving mass concrete's resistance to winter conditions and salt solutions, concrete subject to frequent freeze-thaw cycles.

## 3. Application

StenMix® AER is a ready to use admixture. It can be mixed with concrete directly. Depending on the desired amount of entrained air, it should be used between 0.03% to 0.15% based on weight of the Portland cement. The exact amount must be determined by air meter tests in trial mixes, considering aggregate size distribution, water/cement ratio, type and particle size of cement and ambient temperature.

Increased air contents may have an adverse effect on strength of the concrete (it is generally accepted that an additional 1% air content decreases the strength of concrete 5%) This can be compensated by using water reducing and strengthening StenMix® SUPA or StenMix® HIPA series admixtures.

## Air Entraining Additive for Concrete

### Highlights

- It controls dispersion of micro air bubbles in concrete
- It can be used at concrete highways, airports, runways and terminals, mass concrete structures such as dams and water reservoirs
- It can be used with mass, reinforced or non-reinforced, light weight or normal weight concrete
- It improves workability
- It improves mass concrete's resistance to winter conditions and salt solutions
- It is suitable for concrete subject to frequent freeze-thaw cycles
- It is a ready to use admixture
- It can be used with other concrete admixtures

## 4. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. Emptied packages must be handled in compliance with relevant regulations and laws.

## 5. Storage

The material must be kept in dry indoor storage. Recommended storage temperature is 0 – 30°C. Stored in these conditions, the shelf life is 12 months.

## 6. Company Liability

The information contained in this document is based on site experience of and laboratory tests done by Stenkim®

and meant to give general information. It is the purchaser's responsibility to ensure applicability of products to their use. All Stenkim® products are available in specified quality and conditions. The company accepts no liability whatsoever unless the transportation, storage, application conditions and customer use are overseen by Stenkim®.

Stenkim® reserves the right to update all information contained in this document without notice.

## 7. Technical Data

Properties	Results
Appearance - Color	Liquid – Light Color
Chemical Structure	Synthetic surface-active agents
Density	1.01 kg/l $\pm$ 0.01 kg/l
pH	7.00 $\pm$ 0.50
Chloride Content	None
Freezing Point	0°C

Stenkim® reserves the right to make changes in the values in this table at any time.