

## Arina-tight PRA 497

### Permeability reducing admixture for cement based materials

#### Introduction:

**Arina-tight PRA 497** is a dual action powder form admixture which causes a reduction in water content of cement based materials and leads to a dense and compact concrete, also repels water from surface to reduce permeability of the structures.

#### Where to use:

**Arina-tight PRA 497** contains concrete super-plasticizer to increase workability of concrete, so the water content should be considered as lowest as possible (water/cement ratio should be considered less than 40%) in order to reduce porosity of dried concrete. This product is suitable to be used in following concreting:

- Foundations.
- Water tanks and reservoirs.
- Swimming pools.
- Cement based pipes.
- Channels and galleries.
- Flooring.

#### Technical information:

Appearance	Light brown powder
Effect of over dose	Increase in fluidity, workability and entered air
Chloride content	Nil
Air entertainment	Less than 1%
Specific gravity	Approx.1.03 kg./l

#### Advantages:

- Increases workability.
- Easy to mix.
- Low odor and user friendly.
- Reduces shrinkage.
- Will not corrode reinforcement.
- Can be added to concrete at job site.

#### Mixing:

**Arina-tight PRA 497** can be added at the last stage of mixing at batching plant or to the mixer with 2 minutes extra mixing time, but in any cases the concrete must be applied or placed not later than 30 minutes. In case of workability lost due to placing delay, over dosing of admixture within dosing range or using concrete super-plasticizer is recommended.

#### Dosage:

**Arina-tight PRA 497** should be dosed between 1% to 2% of the cement content. In case of overdosing required due to workability lost, additional 1% of admixture should be added or a Naphthalene based super-plasticizer can be used.

#### Curing:

Curing is essential, immediately after placing concrete containing **Arina-tight PRA 497**, water curing should be implemented. All exposed surfaces should be kept moist till strength gaining (about 5 days). Using curing compound is recommended when clean water is not available.



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**Cleaning:**

All tools and equipment should be washed with water after completion of each job or before break time. Cured material can only be removed mechanically.

**Storage / Shelf life:**

Store out of direct sunlight on pallets, and protect from compaction, extreme heat and rain fall. The shelf life for originally unopened package is 12 months from date of production.

**Packaging:**

*Arina-tight PRA 497* is available in 20 Kg. PP bags.

**Safety precautions:**

*Arina-tight PRA 497* is not a dangerous product, but while working with any chemical material use personal safety devices such as gloves and goggles. If contacted with eyes or mucous membrane, wash with water and seek medical attention immediately.