



PRODUCT INFO
& DATASHEET

Sico Agriculture Feeding

SICO AQUABIND[®] CONCENTRATE

Ultra-low inclusion binder and hardener for use in fish feed and shrimp feed when an extended period of stability in water is required

1. PRODUCT DESCRIPTION

The principle active ingredient in SICO AQUABIND CONCENTRATE is a rapidly hydrolysed synthetic gum that produces a very robust and water resistant pellet.

Pellet quality is of considerable importance in aquaculture. Finished feeds are typically high in protein content and as a result there is limited natural carbohydrate binding capability.

Pellets that break down in the water not only waste valuable nutrients, but also are degraded by bacteria, increasing the Biological Oxygen Demand (BOD) as well as introducing an additional risk of pathogen survival.

Prawn and shrimp feeds, for example, must remain intact and submerged for several hours. To maintain pellet integrity it is necessary to use a water activated binder which is strong enough and flexible enough to bind the fibres of the raw material used.

SICO AQUABIND CONCENTRATE is formulated to work in these difficult feeds

High inclusions of squid or tuna oils, used as attractants, further exacerbate the problem of pellet quality. If possible these ingredients should be sprayed onto the pellet using a post pelleting spray applicator.

2. APPLICATION & USAGE

0.5 – 7.0 kg/ton for shrimp and other sinking feeds, depending on the raw materials used.

The feed must contain some cereals, ideally wheat, to 10 – 20% of the formulation and achieve a pellet core temperature of 90°C.

3. ADVANTAGES : WHY SICO AQUABIND[®] IS YOUR BEST CHOICE !

1. SICO AQUABIND CONCENTRATE is **ultralow inclusion** and is invaluable in fish feeds where formulation space is at a premium.
2. SICO AQUABIND CONCENTRATE is **water activated in the conditioner**. It then becomes relatively non hygroscopic unlike traditional binders. Pellets are more durable, more water resistant and maintain physical integrity.
3. SICO AQUABIND CONCENTRATE is **slowly biodegradable** and has minimal effect on the BOD of aquaculture ponds.
4. SICO AQUABIND CONCENTRATE **improves pellet quality** enabling more oils to be incorporated into feed to keep costs down.
5. There is a **reduction in fines**, and hence wastereduction, with low dust losses both in the mill and during deliveries.

4. PACKAGING

in 25 kg multi-walled paper bags, 17 MT/20' fcl

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