

## EN.5 - SAVEROLLER ENGOBE WITH NEUTRAL REACTION IN WATER

**Parenti Carlo Alberto - Keser Italia Srl**

Abstract:

According to our recent research, standard undertile engobe being Magnesite based may react if in contact with water or moist, developing Magnesium Hydroxide, a very basic substance with high PH corrosive. The problem may develop on tiles that are either boxed while not perfectly dry (for example after undergoing polishing or squaring) or, more subtly, if left exposed to external weather conditions when piled on pallets.

In the boxes, the Magnesium Hydroxide forming on the back pattern of tiles engobed with standard products corrode the surface of the tile below creating the "water mark" issue.

Keser Italia has for this scope found a definitive solution with a new Magnesite free Undertile Engobe, that totally resolve the problem: EN.5.

EN.5 is a formulation with a neutral reaction that in addition produce the following benefits:

### 1. DOES NOT DIRTY THE ROLLERS

It allow for longer roller cleaning intervals compared to traditional magnesium formulations.

It improves tile quality and production process (dimensional flatness regularity of tile pieces, load uniformity both entering and exiting the kiln)

### 2. IS IDEAL FOR WATER BASED PROCESSES

It is especially suited for tiles that require cutting, rectification, polishing and lapping. It prevents watermarks due to atmospheric agents (dampness) which occur frequently when tiles are stored in the open air.

### 3. DOES NOT MAKE DUST

It is especially suited for new back side marks: it avoids dusting at the sorting line and avoids allergies to operators.

Keywords : Saveroller Engobe , Neutral reaction ,Magnesium carbonate, Tiles surface, Ceramic Roller .