

# Quartes Cattle Feed Company - Belgium

In 1980 ZINGA was used for the recharging of old hot-dip galvanised silo's for livestock-feed concentrates and premixes (4 silos, 20 m in height, 4 m in diameter, approx. 4000 m<sup>2</sup>) at the cattle feed company Quartes (formerly named Versele-Laga). The work was executed by employees of the company with brush and roll.



## N.V. VERSELE-LAGA



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9810 EKE (NAZARETH)

**LIVESTOCK-FEED  
CONCENTRATES AND PREMIXES**

Your ref. Our ref. DEINZE, May 7, 1996  
HD/SD

### TESTIMONIAL

We have an experience of over 15 years with ZINGA in our factory for several applications of all kinds.

We want to express our entire satisfaction, in particular concerning the application of ZINGA on silo's, (4 silo's, 20 m in height, 4 m in diameter). These silo's are confronted with a very aggressive environment, because they are situated at the bank of a polluted river with constant humidity.

Till now no maintenance has been necessary. The application was made with a roll/brush by our own maintenance crew. The silo's contain ingredients for cattle food industry and/or fertilizers for agriculture. The temperature of the content varies, which causes a supplementary corrosion speed. We confirm herewith that the Film galvanised system with ZINGA is a post saving system with a minimum of maintenance. The little maintenance which has been done (on our other applications) was reduced to a minimum due to the fact that only water cleaning (pressure) was necessary before we could touch up and reload the old and weathered zingaised structures.

H. DESSOMVIELE  
Technical Director

A handwritten signature in blue ink, likely belonging to H. Dessomviele, the Technical Director.

H.R. GENT 136.371

BTW BE 424.901.669

KREDIETBANK 442-9100151-29

### System :

ZINGA 2 x 60 µm

We received a testimonial letter from Versele-Laga, dated 07/05/96, concerning their experience of over 15 years with this ZINGA application.

These pictures were taken in 1997.



These pictures were taken during an inspection in 2001, more than 20 years after the application.

The silos were still in perfect condition and there was no need for maintenance.

Date:  
22/05/2003

Our reference:  
**1496-01-0883 E-2003**

Your Reference:  
Verbal 09/05/03

Type of intervention	<b>SURVEY REPORT</b>
Object	4 silo's for grain / flour storage
Location	Quartes (ex Versele-Lagae nv) at Deinze
Date inspection	13/05/03
Time inspection	14:30

### 3.2. Measurements of D.F.T..

ELCOMETER BATCH NR./OBJECT ↓	Layer	Average. DFT (µm)	% < Abs.Min	% > Min	OK/NOK
F1 QUARTES SILO 1	2/2	194	0	100	OK
F2 QUARTES SILO 2	2/2	155	0	100	OK
F3 QUARTES SILO 3	2/2	171	0	100	OK
F4 QUARTES SILO 4	2/2	162	0	100	OK

Remarks: On top of the coating, some grow of fungi were stated.

### 3.3. Adhesion testing (Evaluation conform ASTM D-3359-A, par.7).

Item : Silo n° 2  
 Layer : 2/2  
 Result : OK  
 Remarks : Good adhesion.

### 3.4. Visual aspect (covering, closed film, holidays, runners, curtains..)

All silos do not show any rust spots on the flat surfaces and rivet connections.

Small areas with corrosion were stated at the backsides of the manhole entrances.  
 This should be touched-up in order to prevent further breakdown.

In May 2003, 23 years after the application, the silos were officially inspected by SGS Axa-med. As you can see, the dry film thickness was still more than sufficient and the adhesion was perfect. The silos did not show any rust, except at small areas at the backside of manhole entrances. Some minor touch-ups had to be done, but there was absolutely no need for a complete maintenance.