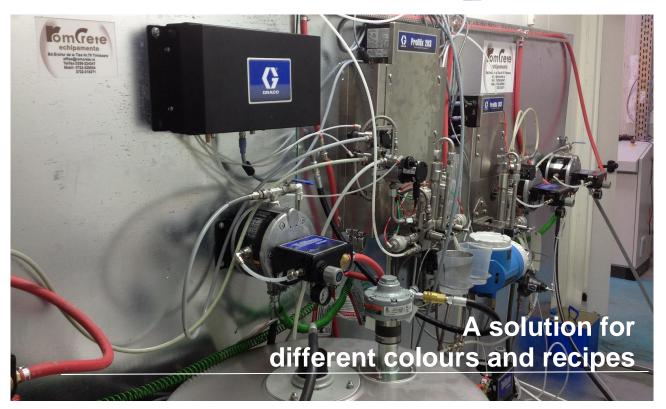
## Graco Story: ProMix 3KS - 2013





Artic, a Romanian company producing freezers was looking for an automatic solution to paint over 27 types of parts with 2 different colors and recipes. The Arkzo Nobel paint used, is a 2 component finishing paint, but has to be thinned to be applied correctly on a plastic surface with a 25µm film.

The ratio recommended by the producer was 7:1 for paint with hardener, and 2:1 if you take (A+B):C, volume C being larger than B. Arctic used to apply this with manual gun with 250cc/min output and high overspray.

#### One recipe for (A+B):C

The request was for a complete automated paint line. If 2ks station would be implemented component A and C (thinner) had has to be mixed manually first to get the right viscosity and after that to mix with hardener. In this situation ratio will be 10:1 and for low exit gun necessary component B will be very hard to measure and deliver a good mix. For this the distributor SC Romcrete Echipamente SRL has suggested a 3 component automated installation.

The implemented solution has a self-learning robot fed by a 3 component paint line working with conveyer and cure oven. The 3KS station works in low pressure with Graco Triton pumps for all components, even for the cleaning solvent.

A conventional paint spray gun for high production and good atomization, with flow up to 150cc/min for the robot's full speed was implemented. For such low flow the smallest quantity in the recipes, component B (hardener) has low flow and for this a Corriolis 1/8 high resolution flow meter was used.

The result was one recipe for colour A:B at a ratio of 7:1 and one for (A+B):C at a ratio of 2:1. To avoid pulsation at the gun during pump change-over to component C, a fluid regulator of the mixed product is placed on the robot arms near the gun after 5 m hose.

Mixed component viscosity was tested and the results were as expected: no errors in the mixing process and the ratio had a tolerance lower than 5%.





#### **END USER**

SC Arctic SRL company, www.arctic.ro part of http://www.arcelik.com.tr/producing Beko freezers.

### **Industry market sector**

Long term consumer goods.

#### **CONFIGURATION**

#### **APPLICATION**

Finishing plastic decorative parts.

# Material specifications

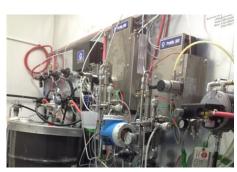
2ks Acrilic paint from Arkzo Nobel

### **GRACO Equipment**

ProMix 3KS automated station







GRACO Distributor SC Romcrete Echipamenten SRL Eroilor de la Tisa Nr. 79 Timisoara Romania Ing. Radu Lupan

## **Contact Graco**

For more information go to www.graco.com To contact us, mail <u>info@graco.be</u>

Want to receive more success stories? Register on <a href="mailto:news.graco.eu.com">news.graco.eu.com</a>

Want to share YOUR story? Go to www.graco.com/MyStory



