## Dispensing plastisol into a rotomold cavity



## CASE STUDY

#### Challenge

Simulaids sells medical teaching aids. Parts are manufactured using a manual rotational molding process. To verify shot-size accuracy, operators pre-weigh pitchers, fill the pitcher, weigh again and pour the material into the mold. Simulaids was seeking equipment to improve their manufacturing process to accurately dispense plastisol into rotomold cavities.

#### Solution

The Graco SmartWare<sup>™</sup> Shot Dispense Kit was installed on a Dura-Flo<sup>™</sup> 580 pump. During the setup, Simulaids' manufacturing staff ensured that shot accuracy was as good or better than the shot accuracy achieved with the manual pour process.

#### Results

Using Graco SmartWare has helped in ease of operation for the operator. The new setup allowed the operator to clamp the dispense valve into the mold opening, step on the foot switch, and perform other operations for that cycle which increased overall productivity. Overall, the new SmartWare configuration greatly reduced cycle time to five seconds per shot with improved shot size accuracy.

The operator running this mold station was initially skeptical of the new method, but after two cycles using the new SmartWare setup, he told his supervisor, "This is great. It really saves me a lot of time."



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## SPECIFICATIONS

#### **END USER**

Simulaids

#### **INDUSTRY**

Medical

#### **APPLICATION**

Rotomold cavity filling

#### **MATERIAL SPECS**

• 50 Durometer Liquid Plastisol

#### **Material Supplier**

PolyOne Corporation

#### **Typical Properties**

- One-Component
- Viscosity: 10,000 centipoise

#### **GRACO EQUIPMENT**

 Graco SmartWare Shot Dispense Kit installed on a Dura-Flo 580 pump

#### CONFIGURATION

- Part number: 262375 (SmartWare shot dispense kit)
- Pump: Dura-Flo 5805
- Hose:
- 3/8 in x 25 ft (9.5 mm x 7.6 m)

#### **Delivery Method**

• Pressure fed stand-mount pump



New SmartWare configuration greatly reduces cycle times to five seconds per shot with improved shot size accuracy.

# GRACO

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