



APPLICATION NOTE

INDUSTRY: MANUFACTURING

MARKET NICHE: COATINGS

PRODUCT: DC-I POSITIVE DISPLACEMENT FLOWMETERS

FLUID: ADHESIVE IN LIGHT OIL CARRIER

SERVICE: CONTINUOUS • VISCOSITY: 20 cP

OVERVIEW

In more than one way, you may have Flow Technology to thank for the roof over your head. You can find Flow Technology positive displacement flowmeters in the asbestos shingle manufacturing process.

The granular coating on asbestos shingles enhances their appearance and durability. A bonding medium is necessary to make the granules adhere to the shingles. With too little bonding medium the granules don't stick. With too much, there are color problems as well as wasted material.

SITUATION

A Midwestern manufacturer of granular coatings for asbestos shingles was using a major brand of insert paddle wheel meters to monitor and control the granule treating fluid. This proprietary fluid contains a bonding agent and colorants in a silicon-based oil carrier.

The meters had problems with leaking at the insert connection and lacked accuracy, but were not so bad that the plant personnel had done anything. When it became necessary to increase production, the inaccuracies of the insert paddle wheel led to product problems.

SALES INFORMATION

The plant was a long-time customer of the Flow Technology representative. He had demonstrated the meter; the plant personnel were interested but did not feel that they had any current applications. When the problems with the insert paddle wheel meter began to intensify, the plant engineer called the representative and asked if the Flow Technology meter might solve their problems.

The first Flow Technology flowmeter was ordered in March 1988. It performed so well that a second was ordered in May. The meters have proven so indispensable that, in July, the plant ordered a third one to keep as an on-the-shelf spare.

What is just as important is that the plant liked the Flow Technology FC controller so well that they bought extra ones to use with the other types of meters in the plant.

TECHNICAL DATA

Flowmeter: DC02I-6119-5102-000 (was FD02I-4113-3102-000) with ultra-high-molecular-weight polyethylene impellers, Viton O-rings and 1/4-inch FNPT end connections

Flow rate: 0.25–2.5 gpm, variable, ambient temperature

Fluid: Proprietary fluid with viscosity of approximately 20 cP



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