



WASH COAT MATERIAL

Typical end products

Can Coating

Introduction

Canning of foods and beverages is currently considered to be a workhorse of food preservation and storage. Thus, it is very important to keep up with protective properties that enhance the performance of cans. In can coating technologies a wash coat is used to provide high chemical resistance, hardness, flexibility and gloss of can caps and closures.

Application

The wash coat is an acrylic substance diluted with water and applied to the outside of cans. Its purpose is also to protect the can from oxidation before labels are applied.

The wash coat preparation process proceeds as follows: the wash coat concentrate is diluted with water in a mixing tank. Here, it is important to monitor the wash coat concentration to assure a high quality can coat which then results in the can's anti-

corrosion properties, its alkali-resistance, good adhesion of labels and better storage stability.

K-Patents' refractometer assures the following features of the can coat preparation process:

1. Continuous monitoring of wash coat concentration.
2. Automation addition of wash concentrate from the tank
3. Consistent quality in the application of material.
4. Precise film weight of coating.
5. Economical use of coating materials.
6. Increased safety in the plant by eliminating handling of material by operator.

Installation

The K-Patents Process Refractometer PR-23-AC is installed in the wash coat dilution tank to control the concentration of wash coat material.

The K-Patents Refractometer is not affected by bubbles. The instrument's solid CORE-optics module does not drift in the installation point, thus, providing accurate concentration measurement. The refractometer is also maintenance-free.

Instrumentation



Description

K-Patents Sanitary Compact Refractometer PR-23-AC for small pipe line sizes of 2.5 inch and smaller.

The PR-23-AC sensor is installed in the pipe bend. It is angle mounted on the outer corner of the pipe bend directly, or by a flow cell using a 3A Sanitary clamp or Varivent® connection.

Measurement range:

Refractive Index (nD) 1.3200 – 1.5300, corresponding to 0-100 Brix.