MetaLine Polyurethane coatings

Pharmaceutical suitability

Issue:

- 1.) Use of "**MetaLine 760/785/795**" coatings in direct contact with foodstuffs and pharmaceutical parts.
- 2.) Use of "**MetaLine 592**" coating to comply for the use under the **FFDCA** and all applicable food additive regulations as a repeated food contact surface and for potable (drinking) water applications.

Specifications:

- Code of Federal Regulations (FDA) 177.1680 (title 21) Polyurethane resins derived from a reaction of HMDI (Methylene
 di-(cyclohexylisocyanate) and polytetramethylene ether glycol
 or Polyurethane resins derived from TDI (Toluene Diisocyanate)
 and polytetramethylene ether glycol.
- 2.) Code of Federal Regulations **(FDA) 21 CFR Sec. 175.300, Table 2 Part E** Polyurethane resin category CAS 373833-28-1 derived from a reaction of MDI (Diphenylmethane-diisocyanate) with 1,4-butanediol and polytetramethylene ether glycol.

Results:

- 1.) "METALINE 760/785/795" meets (FDA) 177.1680 (title 21) and can be used in contact with bulk quantities of dry food containing no free fat or oil on the surface resp. corresponding parts used for pharmaceutical purposes.
- 2.) "METALINE 592" meets (FDA) 21 CFR Sec. 175.300, Table 2 Part E and can be used for:
 - I. Nonacid (pH above 5.0), aqueous products
 - II. Acidic (pH 5.0 or below), aqueous products
 - III. Aqueous, acid or nonacid products containing free oil or fat
 - IV. Dairy products and modifications
 - V. Low moisture fats and oils
 - VI. Beverages (containing alcohol and non-alcoholic)
 - VII. Bakery products

Validity: All product manipulations must be accordingly to the application

procedure issued by the manufacturer.

Date: May 2000

On behalf: Dipl.-Ing. Thomas Schramm

Thomas Sekrama



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