

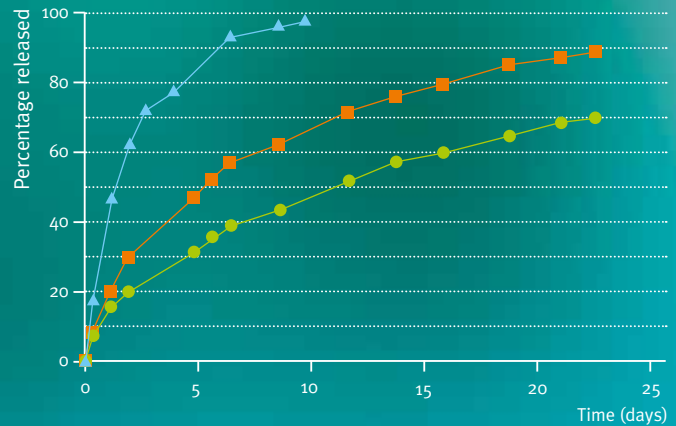
NEW

BAYER OFFERS NEW DRUG-ELUTING MEDICAL COATINGS: BAYMEDIX™ CD 500

STRENGTH & CONTROL



Strong and flexible stent coating



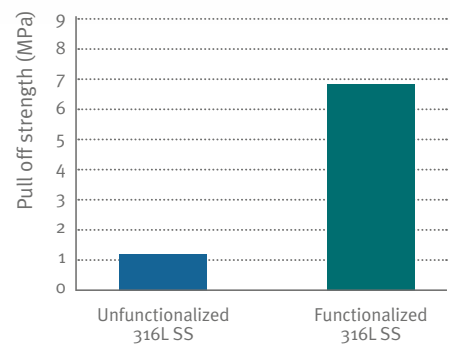
Tunable release kinetics (sirolimus)

Baymedix™ CD is a unique programmable blend of hydrophobic and hydrophilic polymers capable of releasing a therapeutic drug or protein over time from a few hours to several months. The strong yet flexible coating is very resistant to flaking and scratching. It is suitable for applications with rapid deformation such as stent deployment. The proprietary surface modification technology binds the polymer coating to the surface of the device using covalent bonds. This provides excellent resistance to delamination even when immersed in physiological fluids for an extended time.

The process can be adapted to a wide range of materials. After feasibility has been established on development samples, Bayer MaterialScience will provide processing, quality and regulatory support to assist product development.

KEY PRODUCT FEATURES ARE:

- Strong and flexible coating
- Programmable release kinetics
- Multiple, simultaneous drug release possible
- In vivo (28 and 90 days) and in vitro safety data
- Ethylene oxide (ETO) and gamma sterilization compatible
- Very strong bonding to the substrate →



Adhesion strength of Baymedix™ CD 500 after hydration

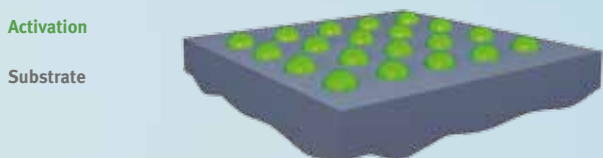
BAYMEDIX™ WORLD-CLASS, TAILOR-MADE, POLYMER-BASED MEDICAL COATINGS:

LUBRICIOUS, HYDROPHILIC, BIOABSORBABLE, DRUG-ELUTING

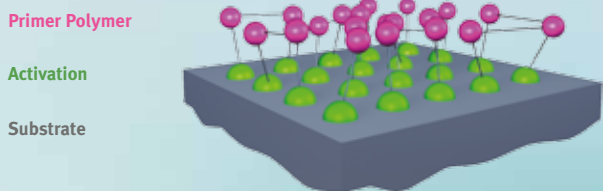
3-STEP PROCESS TO APPLY BAYMEDIX™ CD 500 DRUG-ELUTING COATINGS



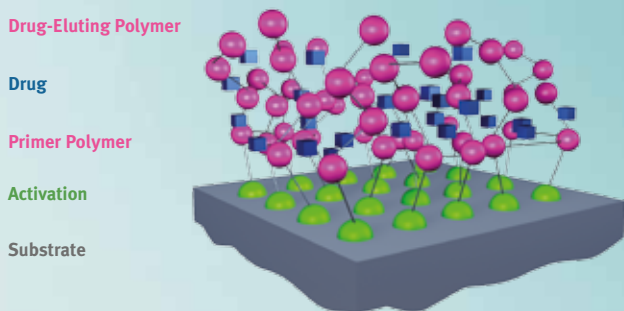
SUBSTRATE: 316L SS, CoCr, NITINOL AND OTHERS



1. STEP: SURFACE MODIFICATION: A CHEMICAL FUNCTIONALIZATION IS USED TO IMPROVE ADHESION BETWEEN SUBSTRATE AND COATING



2. PRIMER POLYMER LAYER ADDED



3. THE DRUG-CONTAINING LAYER IS APPLIED, USING A POLYMER BLEND CHOSEN TO PROVIDE THE DESIRED RELEASE KINETICS

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