



NEW

# HYDROPHILIC MEDICAL COATINGS: BAYMEDIX™ CH SERIES

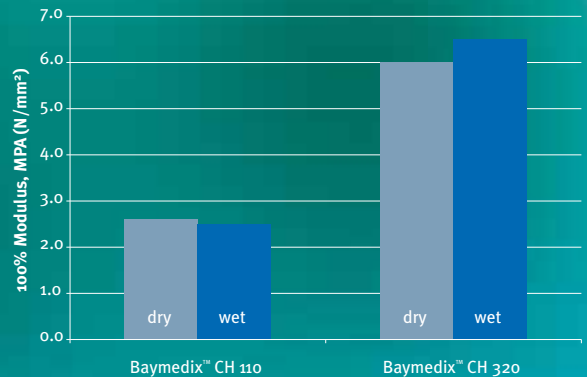
## HYDROPHILICITY

## &

## STRENGTH



Low contact angle – high wettability



Coating stability under dry/wet conditions (wet: measured after 24h storage in water)

These unique coating materials combine the strength and flexibility of polyurethane with exceptional hydrophilicity. In comparison to hydrogels Baymedix™ CH-series materials are very stable under dry and hydrated conditions. They are low swelling, temperature resistant coatings which can be applied to a wide variety of substrate materials to alter surface properties to your needs.

To evaluate the potential of Baymedix™ CH for your application, we will provide you with material samples and process assistance. After feasibility has been established, Bayer MaterialScience will provide support to assist product development.

### KEY PRODUCT FEATURES ARE:

- Highly hydrophilic
- Strong and flexible
- Thermally curable
- Low swelling (< 25 % mass water at equilibrium)
- Offered as a dispersion Baymedix™ CH 110/120 and as a solution Baymedix™ CH 310/320

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

**LUBRICIOUS, HYDROPHILIC, BIOABSORBABLE, DRUG-ELUTING**



## PRODUCT CODES AND TECHNICAL DATA:

FORM	PRODUCT CODE	CONDITION	E-MODULUS MPA (PSI)	TENSILE STRENGTH MPA (PSI)	ELONGATION AT BREAK %
Aqueous Dispersion	Baymedix™ CH 110	dry, room temperature	2.6 (370)	25 (3600)	550
		wet, after 24h in water	2.5 (360)	18 (2600)	450
	Baymedix™ CH 120	dry, room temperature	6.0 (860)	23 (3300)	370
		wet, after 24h in water	7.2 (1000)	21 (3000)	330
Solvent Solution	Baymedix™ CH 310	dry, room temperature	2.3 (330)	25 (3600)	650
		wet, after 24h in water	2.7 (380)	27 (3900)	640
	Baymedix™ CH 320	dry, room temperature	6.0 (860)	30 (4300)	420
		wet, after 24h in water	6.5 (920)	29 (4200)	440

## COATING PROCESS STEPS TO APPLY BAYMEDIX™ CH HYDROPHILIC COATINGS



### 1. CLEANING/ACTIVATION



### 2. DIP- OR SPRAY COATING PROCESS VISCOSITY CAN BE TAILORED TO THE PROCESS NEEDS



### 3. PHYSICAL DRYING DRYING AT ROOM TEMPERATURE OR HIGHER (TEMPERATURE FLEXIBLE)

#### FOR EUROPE:

Simon Spurr  
Bayer plc.  
Newbury, UK  
Phone: +44-7799-470066  
E-mail: [medical@bayerbms.com](mailto:medical@bayerbms.com)

Chris Koppenborg  
Bayer MaterialScience AG  
Leverkusen, Germany  
Phone: +49-214-30-72453  
E-mail: [medical@bayerbms.com](mailto:medical@bayerbms.com)

#### FOR ASIA:

Kazutaka Tahara  
Bayer MaterialScience Limited  
Tokyo, Japan  
Phone: +81 3 6266 7693  
E-mail: [medical@bayerbms.com](mailto:medical@bayerbms.com)

#### FOR THE USA AND CANADA:

Paul Nowatzki  
Bayer MaterialScience LLC  
Pittsburgh, USA  
Phone: +1-412-777-3074  
E-mail: [medical@bayerbms.com](mailto:medical@bayerbms.com)



**Bayer MaterialScience**

Bayer MaterialScience AG  
51368 Leverkusen  
Germany  
[www.baymedix.com](http://www.baymedix.com)

This information and our technical advice – whether verbal, in writing or by way of trials – is given in good faith but without a warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. We will only sell our products on the basis of our General Conditions of Sale and Delivery.

Edition: 2011-03 · Order-No.: MS00047501 · Printed in Germany · E