



# Bioresin Products **bioresin**<sup>®</sup>

Jürgen Mennes

## Germany

- Founded 2001 in Duiven, Holland
- Located in Emmerich/Rhein
- owner Jürgen Mennes/Bulchima-Group
- development and production of resins, hardener & silicones
- all resins based on renewable raw materials
- alle resins non-toxic and free from danger-labels
- portfolio consists of more than 35 standard products
- customized to customer needs/applications

1th May 2005

# 8 product categories

- Casting resins
- tooling resins
- electro casting resins
- laminating resins
- transparent optical resins
- thermo resins
- silicones (Reprolastik)
- construction resins

most resins are mixed with Biodur hardener

1th May 2005

# Rapid prototyping (1)

- Repronastik silicone portfolio
- Q820, Q 845 and more
- extreme strength and flexibility
- reproduction of parts
- highly flexible moulds
- deep reliefs
- transparent or filled silicones
- Shore 4 A to 60 A
- viscosity 800 mPa.s – 50000 mPa.s

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## Rapid prototyping (2)

- reproduction with Biothan casting resins
- 2 MD 614, 2 MD 616, 2 MD 620
- shore 48 A to 85 D
- pot life customized from 1' to 120'
- shrinkage < 0,1%

All casting resins are free from 'dangerous' labelling

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# Transparent resins (1)

- Glass clear resins
- extremely hard to very flexible (25 A to 85 D)
- extremely high UV stability
- humidity resistant
- low and high volume applications
- weight kg/dm<sup>3</sup> 1,1
- 2 MD 1770, 2 MD 1775, 2 MD 1784 range
- customization is possible

All transparent resins are free from 'dangerous' labelling

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# Transparent resins (2)

Examples of application:

- replacement of glass (low weight/unbreakable)
- sculptures
- demonstration purposes
- light encapsulating, LED-industry
- automotive industry
- application where visual aspects are important

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# Electro casting (1)

- casting of transformers, cables, connections, electronics
- beat all traditional epoxy, polyurethanes
- very hard and very flexible applications available
- low shrinkage
- no toxic materials
- extremely good humidity resistance
- very good adhesion
- under all conditions applicable
- contains zinkoxydefor better thermal applications
- low reaction temperature max 50° Celcius

All casting resins are free from 'dangerous' labelling

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## Electro casting (2)

207-E	very hard/transformer casting/high voltage
2 MD 685	very hard, power plug casting
2 MD 2140	low temperature, IC encapsulating/plastics elastic,high isolation, high temp. 170°C transformers
2 MD 2170-200	hard and elastic possible, high isolation, for all applicationes, also outside cable
2 MD 2112	elastic, high isolation, high temp. 170°C transformers

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# Coating/sealing/adhesives

Biovest 1K application

Biolan 2K application

- can be applied by spraying, painting or casting
- transparent and UV-stable,
- binding granulates, sand, asphalt, stone etc.
- More about this applications  
in EU from Bioresin-Solutions GmbH,  
in Easteuropa from Bulchima OOD, Sofia

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# BIOTHAN and BIOVEST

## Biochemical Resins

