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Polymer nanocomposite coatings

Fact Sheet

Project Information

NANOPOL

Grant agreement ID: G5RD-CT-2002-00763

Project closed

Start date

1 November 2002

End date

31 July 2006

Funded under

Programme for research technological development and demonstration on "Competitive and sustainable growth 1998-2002"

Total cost

€ 1 949 349,00

EU contribution

€ 1 173 633,00

Coordinated by

DOW DEUTSCHLAND GMBH &
CO. OHG



Germany

Objective

The proposal will meet an industrial need for an environmentally compatible technology to apply heavy-duty polymer coatings on large components in-house or outside structures on-site. The very recent advances in bulk nanocomposites will be extended to produce a new class of polymer coating hitherto unobtainable and with properties far superior to those of existing coatings. The research will develop new synthesis methods for powders in which the nanophase interacts with the polymer matrix on a molecular scale. A new technique for processing particles in a thermokinetic window will be designed based on spray-deposition and simultaneous near-

infrared radiation. The coatings will be evaluated in the context of potential industrial applications.

Fields of science (EuroSciVoc)

[natural sciences](#) > [chemical sciences](#) > [polymer sciences](#)

[engineering and technology](#) > [materials engineering](#) > [coating and films](#)

[engineering and technology](#) > [materials engineering](#) > [nanocomposites](#)



Programme(s)

[FP5-GROWTH - Programme for research technological development and demonstration on "Competitive and sustainable growth 1998-2002"](#)

Topic(s)

[1.1.3.-5. - RTD Activities of a Generic Nature : materials and their technologies for production and transformation and new and improved materials and production technologies in the steel field](#)

Call for proposal

Data not available

Funding Scheme

[CSC - Cost-sharing contracts](#)

Coordinator



DOW DEUTSCHLAND GMBH & CO. OHG

EU contribution

No data

Total cost

No data

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77836 RHEINMUENSTER

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Participants (5)



AKZO NOBEL POWDER COATINGS LTD

 United Kingdom

EU contribution

No data

Address

Stoneygate Lane, Felling
NE10 0JY TYNE AND WEAR 

Total cost

No data



IRCON DRYING SYSTEMS AB

 Sweden

EU contribution

No data

Address

Sundsgatan 17
462 21 VANERSBORG 

Total cost

No data



RAMBOLL HANNEMANN & HOJLUND A/S

 Denmark

EU contribution

No data

Address

Willemoesgade 2

6700 ESBJERG 

Total cost

No data



SOUTH BANK UNIVERSITY

 United Kingdom

EU contribution

No data

Address

Borough Road 103

SE1 0AA LONDON 

Total cost

No data



THE ICELANDIC BUILDING RESEARCH INSTITUTE

 Iceland

EU contribution

No data

Address

Keldnaholt

112 REYKJAVIK 

Total cost

No data

Last update: 9 December 2005

Permalink: <https://cordis.europa.eu/project/id/G5RD-CT-2002-00763>

