



# EASIUM®

Evaluation of innovative processes for forming EASIUM® powder

BUDGET

€103K

GRANTS OBTAINED

€54K

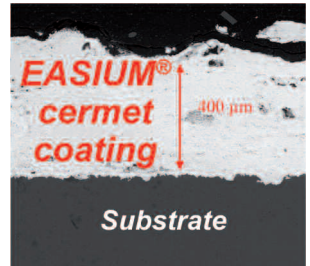
ACTRA FUNDING

2008 - 2010

## THE PROJECT

This project represents the first study of the feasibility of manufacturing cermets or metal matrix composites from EASIUM®, in the form of solid parts or thick coatings. The innovative forming processes tested involve the impact compaction (HVC) of powder followed by a microwave sintering process for the production of solid parts and a powder spraying process (DMD) and Computer Controlled Detonation Spraying for the depositing of coatings. Given the intrinsic characteristics of EASIUM®, the properties sought are: hardness, wear resistance and a low coefficient of friction for mechanical applications and the medical sector. When producing solid parts, the sintering of the material remains delicate. A very considerable absorption of the  $\mu$ -wave radiation is observed. Coating applications have shown some interesting initial tribological properties.

**ViaMéca**  
French mechanical cluster



## PROJECT SPONSOR

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