Co-funded by the Eco-innovation Initiative of the European Union

ECOPROT

ECO-FRIENDLY CORROSION PROTECTING COATING OF ALUMINIUM AND MAGNESIUM ALLOYS

Funding scheme: CIP-Eco-Innovation – Pilot and market replication projects

Call identifier: CIP-EIP-Eco-Innovation-2012

Theme: CIP-EIP-2012.4.15 –SMEs green business

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Project start date: November 1st 2013

Duration: 30 months

Deliverable 3.4

Data sheet on the process / coatings

Due date of deliverable: 31/05/2016	Actual submission date: 11/07/2016	Reference period: 01/11/2013 – 31/05/2016
Consortium document classification code: ECOPROT-D3.4_11-07-2016	Lead Beneficiary: PROMET	Dissemination level: PU

Content

1 EXECUTIVE SUMMARY

1.1 Description of the deliverable content and purpose

The main output of this task is the non-confidential data sheet of the process for coating preparation, according to the parameters set during coating production at PROMET facilities.

1.2 Deviation from objectives

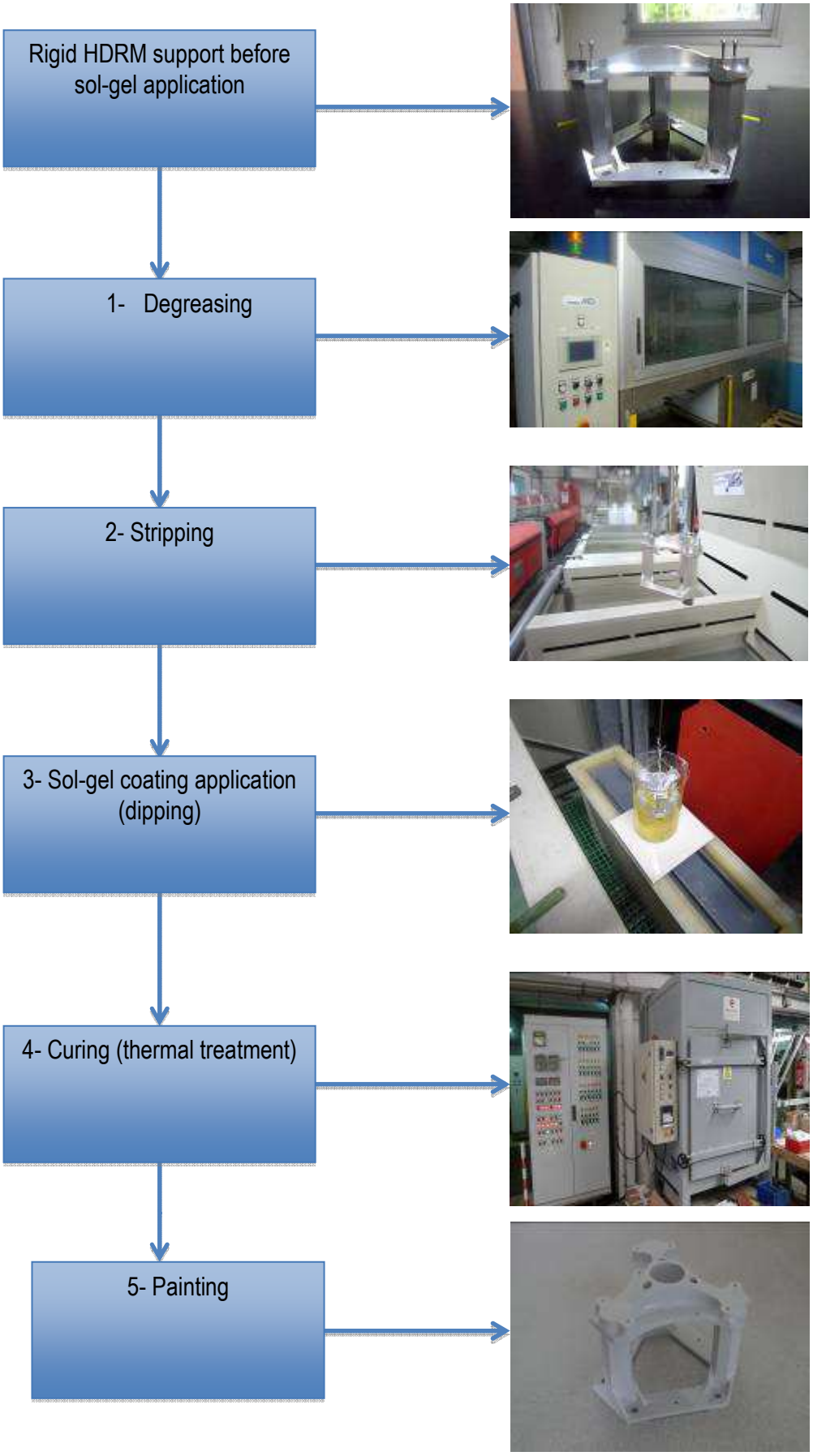
Because of delays in the project and complex delivery of sensitive aeronautic parts, the process has been implemented and amended later in time.

2 NON-CONFIDENTIAL DATA SHEET

The following diagram illustrates the process for ECOPROT sol-gel coating application, as produced in PROMET pilot-plant. Please note that this description only shows the public version, without confidentiality details.

Photos have been selected to illustrate the different steps of this sequence.

The process has been used to treat aeronautic and automotive parts for product validation. The parts have been issued by Active Space and Grupo Antolín respectively, as supporters of the ECOPROT project. They are real components showing profiles and characteristics representative of that type of industrial elements.


Rigid HDRM support before sol-gel application
1- Degreasing
2- Stripping
3- Sol-gel coating application (dipping)
4- Curing (thermal treatment)
5- Painting