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**DATA COLLECTION FOR LIFE CYCLE ASSESSMENT OF  
POWDER GELCOAT**

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**ABSTRACT**

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<p>This thesis is a part of European Union project Ecogel Cronos which aims to conduct data collection for life cycle assessment of zero volatile organic compound powder gelcoat with fast curing properties from acquiring the ingredients until the process of curing of the powder gelcoat.</p> <p>The aim of this thesis work is to focus on collecting information from production process of the main ingredient of the powder gelcoat - unsaturated polyester resin, as well as from the production process of powder gelcoat. Combined and quantified results from both processes were compiled to be used in creating simulation process with SimaPro 8 Life Cycle Assessment software.</p> <p>As a result, information from production processes was collected as precisely as possible. Appropriate calculations were conducted in accordance with formulations of the unsaturated polyester resin and the powder gelcoat. Necessary calculations and educational estimations upon available and unavailable ingredients were compiled for SimaPro 8 software. The base for the continuation of the research was established</p>		
<b>Key words</b> Ecogel Cronos, data collection, Life Cycle Assessment, powder gelcoat, SimaPro 8 software, unsaturated polyester resin		

**ABSTRACT**  
**CONTENTS**

<b>1 INTRODUCTION.....</b>	<b>1</b>
<b>2 LIFE CYCLE ASSESSMENT.....</b>	<b>3</b>
<b>2.1 General description of LCA .....</b>	<b>3</b>
<b>2.1.1 Phases of LCA .....</b>	<b>4</b>
<b>2.1.2 Function of the system .....</b>	<b>5</b>
<b>2.1.3 General concepts of product systems .....</b>	<b>6</b>
<b>2.2 Methodological framework .....</b>	<b>7</b>
<b>2.2.1 System boundaries .....</b>	<b>8</b>
<b>2.2.2 Life Cycle Inventory .....</b>	<b>10</b>
<b>2.2.3 Life Cycle Impact Assessment.....</b>	<b>11</b>
<b>3 THESIS REFERENCE TO ECOGEL CRONOS PROJECT.....</b>	<b>14</b>
<b>3.1 Types of resins .....</b>	<b>14</b>
<b>3.1.1 Epoxy resins.....</b>	<b>15</b>
<b>3.1.2 Vinyl-ester resins.....</b>	<b>15</b>
<b>3.1.3 Unsaturated polyester resins.....</b>	<b>16</b>
<b>3.2 Liquid (conventional) and powder gelcoats.....</b>	<b>17</b>
<b>3.2.1 Liquid gelcoat (conventional).....</b>	<b>17</b>
<b>3.2.2 Powder gelcoat.....</b>	<b>18</b>
<b>3.3 Methodology of research .....</b>	<b>19</b>
<b>3.4 Production processes.....</b>	<b>19</b>
<b>3.4.1 Unsaturated polyester resin production process.....</b>	<b>20</b>
<b>3.4.2 Powder gelcoat production process .....</b>	<b>21</b>
<b>4 LIFE CYCLE ASSESMENT SOFTWARE SIMAPRO 8 .....</b>	<b>24</b>
<b>4.1 SimaPro 8.....</b>	<b>24</b>
<b>4.2 SimaPro 8 software analysis.....</b>	<b>24</b>
<b>5 RESULTS .....</b>	<b>26</b>
<b>5.1 Energy consumption calculations for UP resin .....</b>	<b>26</b>
<b>5.2 Energy consumption calculations for powder gelcoat .....</b>	<b>27</b>
<b>5.3 Ingredients' availability of UP resin and powder gelcoat for LCA software .....</b>	<b>29</b>
<b>5.4 Calculation results used for SimaPro 8 technosphere .....</b>	<b>32</b>
<b>6 CONCLUSION .....</b>	<b>36</b>
<b>REFERENCES.....</b>	<b>37</b>

**GRAPHS**

<b>GRAPH 1. Stages of a Life Cycle Analysis (adapted from ISO 14040:2006 standard).....</b>	<b>4</b>
<b>GRAPH 2. Product system example (adapted from ISO 14040:2006 standard) .....</b>	<b>6</b>
<b>GRAPH 3. Set of unit processes within a product system example (adapted from ISO 14040:2006 standard).....</b>	<b>7</b>
<b>GRAPH 4. System boundary of the inventory modified according to Society of Environmental Toxycology and Chemistry (SETAC) (1991) (adapted from Klöpffer &amp; Grahl 2014, 32).....</b>	<b>8</b>
<b>GRAPH 5. Product life cycle stages (adapted from Master's thesis Janne Kekäläinen 2013) .....</b>	<b>9</b>

<b>GRAPH 6. Example of data collection of a process unit (adapted from LCC/LCA Tools. Dry fermentation.xls – for dry fermentation to biogas 2004) .....</b>	<b>11</b>
<b>GRAPG 7 Overall scheme of Impact 2002+ framework, linking LCI results via midpoint categories to damage categories (adapted from Jolliet, O., Margni, M., Charles, R., Humbert, S., Payet, J., Rebitzer, G. &amp; Rosenbaum, R. 2003). .....</b>	<b>13</b>
<b>GRAPH 8. Polycondensation reaction (adapted from Polyester resins/Полиэфирные смолы 2003) .....</b>	<b>16</b>
<b>GRAPH 9. Synthesis of UP resin .....</b>	<b>20</b>
<b>GRAPH 10. Powder coating process cycle.....</b>	<b>22</b>
<b>GRAPH 11. Flow chart of powder coating production .....</b>	<b>28</b>

## **TABLES**

<b>TABLE 1. The time schedules for heating the mixture .....</b>	<b>21</b>
<b>TABLE 2. Data for laboratory scale and industry scale of UP resin production .....</b>	<b>26</b>
<b>TABLE 3. Data for industry scale of gelcoat production.....</b>	<b>29</b>
<b>TABLE 4. List of ingredients and availability in SimaPro 8 and GaBi 5 databases .....</b>	<b>30</b>
<b>TABLE 5. List of ingredients for powder gelcoat and availability in SimaPro 8 and GaBi 5 databases.....</b>	<b>31</b>
<b>TABLE 6. Ingredients and their substitutes for SimaPro 8 LCA software.....</b>	<b>32</b>
<b>TABLE 7. Masses of ingredients of UP resin used in SimaPro 8 .....</b>	<b>33</b>
<b>TABLE 8 Formulation of powder gelcoat .....</b>	<b>34</b>
<b>TABLE 9 Masses of ingredients of powder gelcoat used in SimaPro 8 .....</b>	<b>34</b>