

<b>Development planning (lab work)</b>		<b>AWT</b>	1803
		<b>Intrex</b>	2022-xxxxx
<b>Test arrangement</b>		<b>Approval:</b>	MOS
<b>Date of issue:</b>	03.02.22	<b>Deadline:</b>	31.12.22
<b>Customer:</b>	Mäder Composites	<b>In charge:</b>	CES, MOS
<b>Problem:</b>	Low viscosity pigment pastes for automated tinting of gelcoats based on unsaturated polyester resins.		

<b>Distribution:</b>	R&D Composites	<b>Distribution results:</b>	Project members
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<b>Workload estimated:</b>	3-6 months	<b>Workload effectiv:</b>	
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<b>Task:</b>	<p>Introduction of calibrated low-viscosity pigment pastes from Chromaflo to produce colored gelcoats using a fully automatic dosing system (Fast &amp; Fluid system).</p> <p>Project topics:</p> <ul style="list-style-type: none"> <li>- Colorant set calibration in Datacolor Matchpigment for the different basic pigment pastes and gelcoats.</li> <li>- Matching of colors (RAL, NCS S, color reference sample) and checking the formulation quality (hit rate of first formulations, matching speed).</li> <li>- Re-formulation of existing colors and formula optimization until compliant with internal CIE-L*a*b specification.</li> <li>- Quality control of the colored gelcoats (influence on gel time, tackfree, viscosity, pigment floating, color stability, compatibility, color strength, covering power).</li> <li>- Statistical evaluation of the color matching quality.</li> <li>- Proof of concept (scale-up process) for the production line.</li> </ul>
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Nom du document : Stage coloration pigment  
Répertoire : C:\Users\hft\Desktop  
Modèle : C:\Users\hft\AppData\Roaming\Microsoft\Templates\Normal.dotm  
Titre :  
Sujet :  
Auteur : FTAICH Hamed  
Mots clés :  
Commentaires :  
Date de création : 23/02/2022 07:30:00  
N° de révision : 1  
Dernier enregistr. le : 23/02/2022 07:32:00  
Dernier enregistrement par : FTAICH Hamed  
Temps total d'édition : 2 Minutes  
Dernière impression sur : 23/02/2022 07:45:00  
Tel qu'à la dernière impression  
Nombre de pages : 2  
Nombre de mots : 195 (approx.)  
Nombre de caractères : 1 075 (approx.)