



Coating design

- ✓ Customized on demand for a myriad of substrates
- ✓ Water based and (UV, EB) curable
- ✓ Smart throughput screening



CHEMSTREAM
SUSTAINABLE CHEMISTRY



Coating Design

Our coating design is based on a well considered approach where we link the optimized end user requirements to a sustainable manufacturing process. Thanks to our smart throughput screening, we efficiently customize coatings on demand reducing your energy consumption and your waste production. Our coatings are fully adjustable to your requests from water based to curable (= UV-light, UV-LED, electron beam). We design custom-made decorative and/or functional coatings. Functional coatings may be applied to change the surface properties of the substrate, such as adhesion, wettability, corrosion resistance, or wear resistance.

Our expertise includes coatings for a myriad of substrates, from high (Cu, Al, glass, etc.) to low (PE, PP, melamine, etc.) surface energy. Low surface energy substrates can be easily activated by means of a plasma technique for a better wetting and therefore a better performance. We also achieve excellent adhesion on difficult substrates thanks to tailor-made adhesion promoters.

By adapting the rheological behaviour (viscosity and surface tension), we can provide coating formulations for a variety of coating technologies: forward and reversed roller coating, cascade coating, curtain coating, spraying, etc. We provide our customers with prototype formulations (25-50 L scale) to perform their own in-house production and application tests.

FOCUS

- ✓ **Waterborne or radiation curable formulations.**
- ✓ **Decorative and/or functional: effect on adhesion, wettability, corrosion resistant, etc.**
- ✓ **Rheology optimization for different coating technologies: forward and reversed roller coating, cascade coating, curtain coating, spraying, etc.**

MAIN FEATURES

- ✓ Excellent adhesion to difficult substrates thanks to our tailor-made adhesion promoters.
- ✓ Short development time thanks to our smart throughput screening.
- ✓ Customized approach



ChemStream, an innovative chemical R&D company, is specialized in translating material problems in sustainable formulations with focus on high performing nano-dispersions, functional coatings and inkjet inks. The R&D core team has more than 20 years experience in application driven and customized product development. ChemStream has its own lab facilities for chemical synthesis, formulating and characterizing from design to end user product.