

In January, Specific Polymers is glad to celebrate with you its 16th anniversary! We can provide you the best R&D services, don't hesitate to contact us

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16th Years & Full of New Projects!

SPECIFIC POLYMERS (SP) is glad to celebrate with you this year its **16th anniversary!**



This is an excellent opportunity to present you the company's history. Created in 2003 as a spin-off company of Montpellier University, SP has known a **constant growth** since then and is now an **international SME**. Today, 20 employees are involved to provide the **best R&D services** for more than 500 academic laboratories and high-tech industrial groups in over **50 countries worldwide**. With more than **10 000 functional building blocks, monomers and polymers**, SP is involved in a wide range of industrial fields such as **construction, healthcare, aeronautic, energy, automotive** and more.

For any request, don't hesitate to contact us >



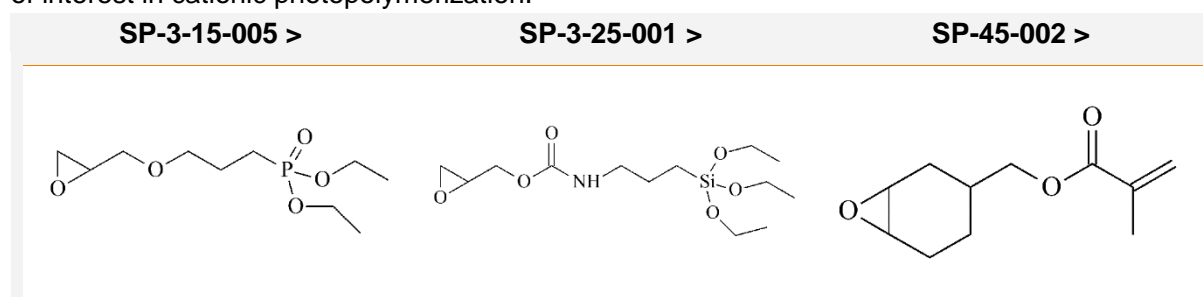
Among these projects, **SPECIFIC POLYMERS** wants to highlight this month its research activity on **epoxy monomers for photopolymerization**. In 2018, SP initiated a close collaboration with Prof. Sangermano from **DiSAT lab - Politecnico de Torino >**. In the scope of this project, SP is

willing to develop new epoxy monomers of interest for the synthesis of thermoset coatings prepared by cationic photopolymerization. Indeed, cationic UV-curing process presents numerous benefits such as the **absence of air inhibition, a “dark-curing” reaction, low levels of toxicity and irritation, and a lower volume shrinkage during photopolymerization.**[1] Furthermore, involved mechanisms in cationic photopolymerization enable the synthesis of thick materials and composites by **combining Radical-Induced Cationic Photopolymerization with Frontal Polymerization.**[2]

[1] M. Sangermano et al., *Cationic UV-Curing: Technology and Applications*, *Macromol. Mater. Eng.* **2014**, *299*, 775–793

[2] M. Sangermano et al., *New Horizons in Cationic Photopolymerization*, *Polymers* **2018**, *10*, 136

Our expertise in organic chemistry enables to propose a large range of functional epoxy monomers of interest in cationic photopolymerization.

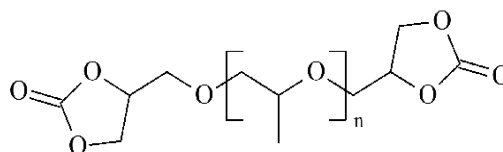


[Learn more about Photopolymerizable Monomers >](#)

Product of the Month

[PPO Bis Cyclocarbonate – SP-1P-0-004 >](#)

Cyclocarbonate functional building blocks are of great interest in the **synthesis of isocyanate-free polyurethane materials**,[3] hybrid materials such as **NiPU/epoxy resins**[4] or **sol-gel hybrid polyhydroxyurethanes**.[5] SP proposes two different grades of Poly(propylene oxide) bis cyclocarbonates, exhibiting molecular weight around 500 g/mol and 800 g/mol.



[3] A. Cornille et al. *Syntheses of epoxyurethane polymers from isocyanate free oligo-polyhydroxyurethane*, *Eu. Polym. J.* **75**, **2016**, 175–189

[4] J. Ke et al., *Non-isocyanate polyurethane/epoxy hybrid materials*, *RSC Adv.*, **2017**, *7*, 28841

[5] M. Decostanzi et al., *Synthesis of sol-gel hybrid polyhydroxyurethanes*, *Eur. Polym. J.*, **109**, **2018**, 1–7

[Learn more about Cyclocarbonates >](#)

News & Events

[SP in the Photopolymerization Community >](#)



SPECIFIC POLYMERS had the opportunity to present its diverse range of **UV-curable monomers for free-radical and cationic photopolymerization** during the **5th European Symposium of Photopolymer Science** > in Mulhouse (3-6 September 2018). In 2019, SP intends to present the progress of its research in this field during PolyRay congress which will be held in Montpellier in March 2019.

[Learn more about PolyRay Congress 19 >](#)

Looking for Monomers in Cationic Photopolymerization?

SPECIFIC POLYMERS provides Custom Synthesis Programs!

- We produce **from grams to hundred grams** depending on the targeted molecule
- All products are delivered with a **synthesis report** including experimental details & analysis
- Report on the project progress by **regular phone meeting**
- **Feasibility evaluation** can be proposed depending on your needs (targeted structures, quantities)

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