

Supporting Information - Accelerating the Curing of Hybrid Poly(Hydroxy Urethane)-Epoxy Adhesives by the Thiol-Epoxy Chemistry

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Table S1. Carbonate equivalent weight (CEW), active hydrogen equivalent weight (AHEW), epoxy equivalent weight (EEW) and thiol equivalent weight values.

Reactant	CEW (g/eq.)	AHEW (g/eq)	EEW (g/eq)	TEW (g/eq)
PPGdiCC	333 ± 4	-	-	-
RdiCC	190 ± 5	-	-	-
1,12-DAD	-	100.18	-	-
NH ₂ -PHU-NH ₂	-	260.2 ± 2.8	-	-
TMPTMP	-	-	-	132.85
EPIKOTE™ 828	-	-	184-190 ^a	-

^a Value provide by Hexion. The media between values was employed for calculations.

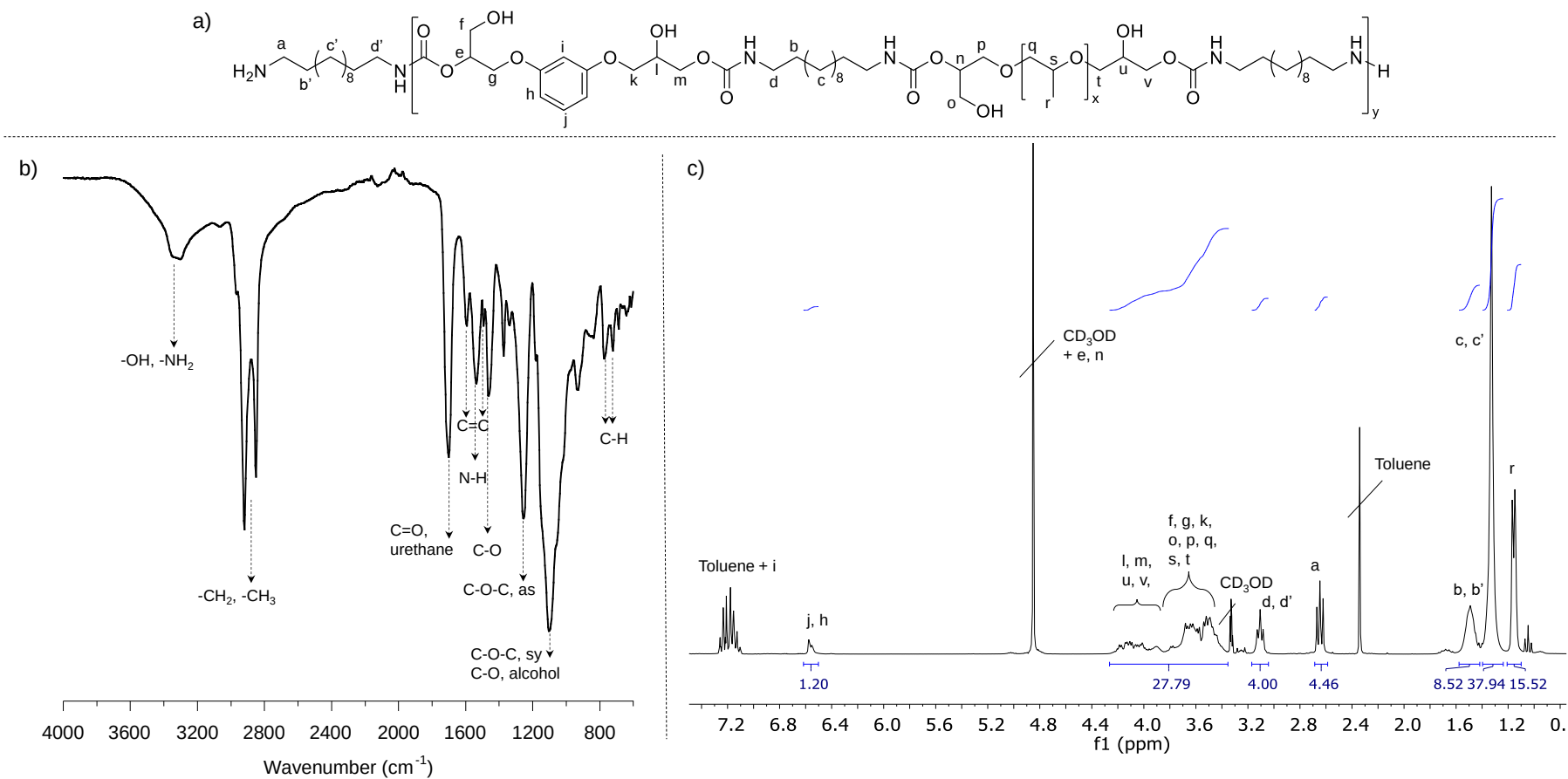
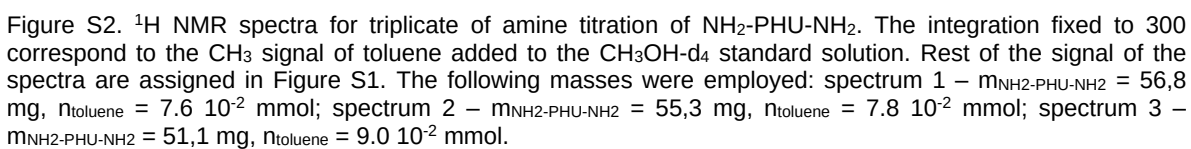


Figure S1. a) NH₂-PHU-NH₂ polymer structure; b) FTIR-ATR and c) ¹H NMR spectrum of the NH₂-PHU-NH₂.



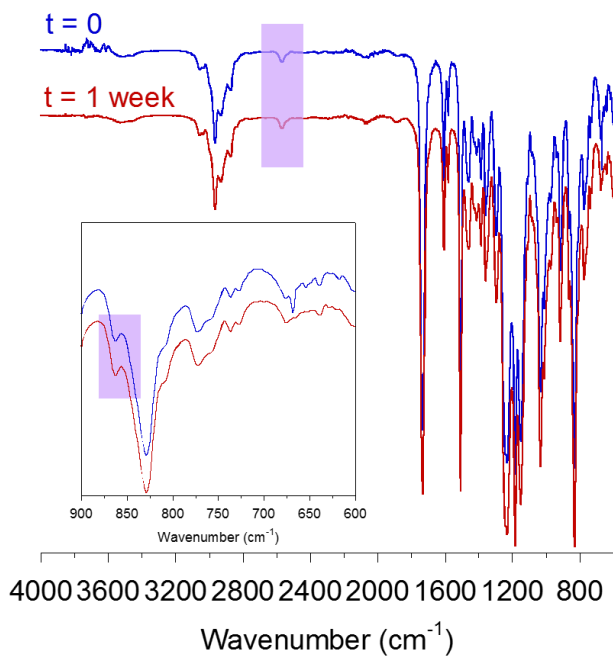


Figure S3. FTIR-ATR spectra of the mixture TMPTMP and EPIKOTETM 828 at $t = 0$ and after one week kept at room temperature. Remaining vibration bands at 2569 cm^{-1} (S-H) and at 862 cm^{-1} (as C-O-C, epoxy), highlighted with purple, showed the stability of the mixture. In the box is zoomed between 900 and 600 cm^{-1} of the spectra.

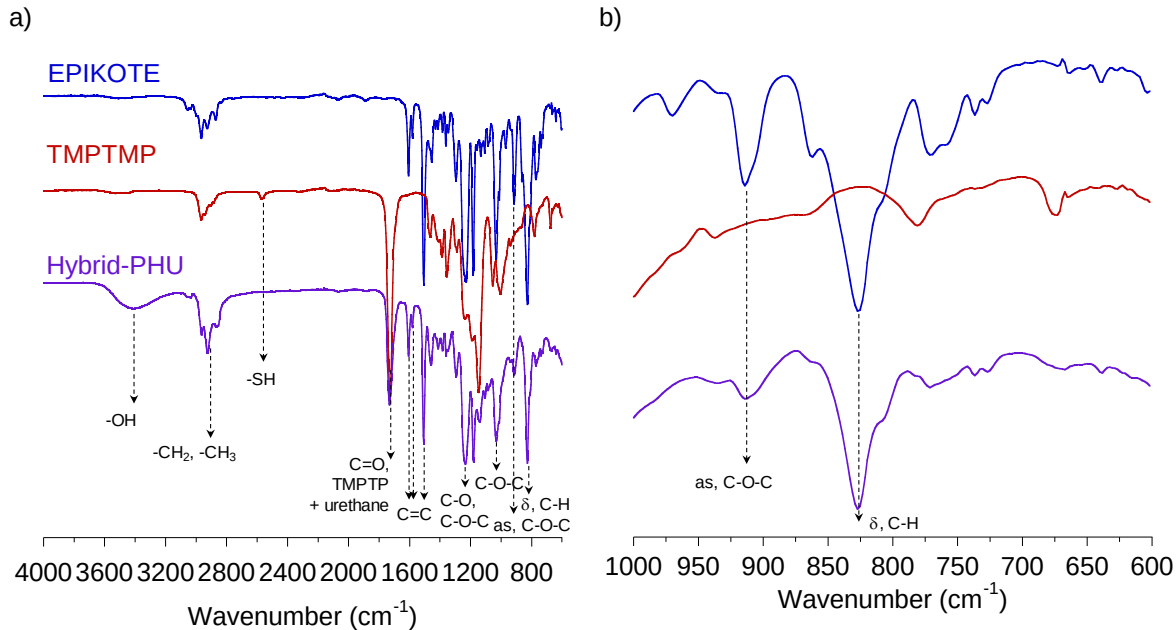


Figure S4. FTIR-ATR spectra of the curing process for 30/70 NH_2 -PHU- NH_2 /TMPTMP as representative example of the evolution of the curing process of hybrid PHU-epoxy adhesives.

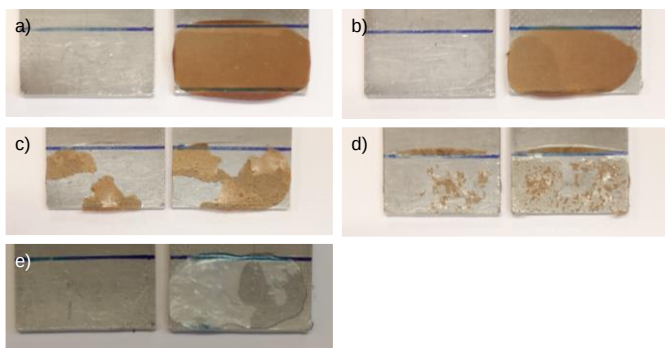


Figure S5. Photos of the representative failure nature of the PHU-epoxy hybrid compositions cured at room temperature for 24 h. a) 100/0, b) 70/30, c) 50/50, d) 30/70 and e) 0/100 $\text{NH}_2\text{-PHU-NH}_2\text{/TMPTMP}$ equivalent ratios.