Lemma. Consider $\mathbf{d}, \mathbf{e} \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{P}; \mathbf{Q})$ and $\mathbf{g} \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{Q}; \mathbf{R})$. One has $(\mathbf{d} \wedge \mathbf{e}) \stackrel{\circ}{\circ} \mathbf{g} = (\mathbf{d} \stackrel{\circ}{\circ} \mathbf{g}) \wedge (\mathbf{e} \stackrel{\circ}{\circ} \mathbf{g}).$