$$\left(\text{FixFunMinRes}(\mathbf{d}) \mathbin{\overset{\circ}{\scriptscriptstyle 9}} \mathbf{Pos}_{\mathcal{U}} \text{FixFunMinRes}(\mathbf{e})\right)^{\star}(x)$$

$$= \bigcup_{y \in \text{FixFunMinRes}(\mathbf{d})^{\star}(x)} \text{FixFunMinRes}(\mathbf{e})^{\star}(y)$$

$$= \bigcup_{y \in \{y \in Y \mid \mathbf{d}(x*,y)\}} \{z \in Z \mid \mathbf{e}(y^*, z)\}$$

$$= \{z \in Z \mid (y \in Y) \wedge \mathbf{d}(x^*, y) \wedge \mathbf{e}(y^*, z)\}$$

$$= \{y \in Y \mid \bigvee_{y \in Y} \mathbf{d}(x^*, y) \wedge \mathbf{e}(y^*, z)\}.$$