

## **compose-fpf-dom**<sup>11,40</sup>

$\forall A:\text{Type}, B:(A \rightarrow \text{Type}), f:\text{fpf}(A; x.B(x)), C:\text{Type}, a:(A \rightarrow (?C)), b:(C \rightarrow A), y:C.$   
 $(y \in \text{fpf-domain}(\text{compose-fpf}(a; b; f)))$   
 $\iff (\exists x:A. ((x \in \text{fpf-domain}(f)) \wedge ((\uparrow \text{isl}(a(x))) \text{c} \wedge (y = \text{outl}(a(x)))))$