$$\cdot \quad \frac{\Gamma \vdash M : t_2 \ [\tau \Leftarrow t_1]}{\Gamma \vdash (p = \text{pack} \ [\tau = t_1 \ \text{in} \ t_2] \ \text{with} \ M) : \{p : \exists \tau . t_2\}}$$

$$\cdot \quad \frac{\Gamma \vdash p : \exists \tau . t_2}{\Gamma \vdash (x, pt = \text{new} \ p) : \Gamma \{x : t_2 \ [\tau \Leftarrow pt]\}}$$