The equations of static equilibrium become:

$F - N_2 = 0$ (horizontal)

$N_1 - mg = 0$ (vertical) and $N_2 L \sin\varphi - \frac{1}{2} mgL \cos\varphi = 0$ (torque about bottom of ladder)

Where $mg = 80$ N, $\cos\varphi = \frac{1.0\text{ m}}{3{,}5\text{ m}} = 0{,}28571$

$$N_1(\text{the force exerted by the ground}) = 80\text{ N}$$

$$N_2(\text{the force exerted by the wall}) = \frac{1}{2} mg \cot\varphi = \frac{1}{2} \cdot 80\text{ N} \cdot 0{,}29814 = 11{,}9256\text{ N}$$

$$F(\text{ the frictional force exerted by the ground}) = N_2 = 11{,}9256\text{ N}$$