```
st_app_monotone  THM

⊢  ∀a1,a2,b1,b2:Collection(SimpleType).
|  a1 ⊆ a2 ⇒ b1 ⊆ b2 ⇒ st_app(a1;b1) ⊆ st_app(a2;b2)
| by Unfold `col_le` 0 THEN
RWW "member_st_app" 0
THEN Auto
|
1. a1 : Collection(SimpleType)
2. a2 : Collection(SimpleType)
3. b1 : Collection(SimpleType)
4. b2 : Collection(SimpleType)
5. ∀x:SimpleType. x ∈ a1 ⇒ x ∈ a2
6. ∀x:SimpleType. x ∈ b1 ⇒ x ∈ b2
7. x : SimpleType
8. ∃a:SimpleType. a ∈ b1 & a→x ∈ a1
⊢  ∃a:SimpleType. a ∈ b2 & a→x ∈ a2
  by ExRepD THEN InstConcl [a] THEN SmAuto
END
```