```
RkMatrix< Number >
- A
- B
rank

    formal rank

- m
- n
+ RkMatrix()
+ operator=()
+ reinit()
+ get_m()
+ get_n()
+ get_rank()
+ get formal rank()
+ get_A()
+ get_A()
+ get_B()
+ get_B()
+ convertToFullMatrix()
+ restrictToFullMatrix()
+ restrictToFullMatrix()
+ print formatted()
+ print formatted to mat()
+ truncate_to_rank()
+ vmult()
+ Tvmult()
+ add()
+ assemble from rkmatrix()
```