

## **Summary**

This bachelor thesis is focused on the possible use of limestones from the Český kras area for the preparation of alternative inorganic binders, namely for hydraulic limes and natural cements. In the introductory chapters, the geology of Český kras is described. Silurian and Devonian beds make the most important lithostratigraphic members. Then, the history of limestone exploitation and processing is explained. It is followed by the petrographical characteristic of limestone – its mineralogical and chemical composition, the structure and the texture, the classification, the genesis and the diagenesis. Major part of the thesis focuses on inorganic binders – their basic characterization and evaluation. Limestones are discussed from the point of their general use in the industry. The limestones from the Český kras area are analyzed based on their chemical composition (based on the previously reported data) and evaluated for the potential use for burning of hydraulic limes and natural cements.