



Full Cycle of Lime

Here is the chemical reaction for the lime process:

Limestone containing Calcium Carbonate (CaCO₃) is crushed and burned at high temperatures:

CaCO₃ → CaO (Calcium Oxide) + CO₂ (Carbon Dioxide) which evaporates.

-the process to slake and age the lime before use starts:

CaO + H₂O → Ca (OH)₂ which is Calcium Hydroxide (putty lime or Grassello)

-when the Grassello is applied, the Carbonation reaction starts right away, picking up natural CO₂ molecules from the atmosphere and evaporating water:

Ca (OH)₂ + CO₂ → CaCO₃ (Calcium Oxide or LIMESTONE again!) plus H₂O which evaporates.

The limestone becomes limestone again (without any impurities)!!!

That is why lime is so durable, environmentally friendly and beautiful – as long as synthetics are not added to it!