

Clay Grinding Systems

Applications, Process, Properties

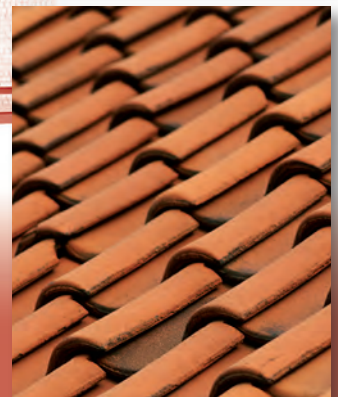
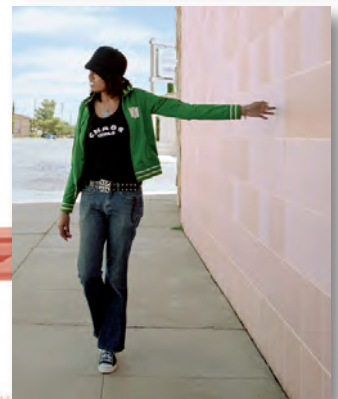
Clay is widely used for floor-, wall- and roof tiles, bricks and hollow gauged blocks in the building industry.

Clay is manufactured in a wet or **dry process**. Grinding and drying of raw material is done before mixing with water and storing on wet piles.

Clay has a flaked or layered shape, a good affinity for water and a tendency towards high plasticity while being wet. After baking the clay converts into a ceramic material.



PROCESS



NEA Benefits

Experience

- since 1950 in clay grinding
- today, more than 25 clay grinding systems are in successful operation

Fineness

- coarse grinds: $d_{97} = 200 \mu\text{m}$ for roof tiles and bricks
fine grinds: $d_{97} = 63 \mu\text{m}$ for floor and wall tiles
- sharp top cuts even at coarse grinds by SDR Radial Classifier

Moisture

- feed material max. 18 % H₂O
final product with 1 - 4 % H₂O
- hot gas generator for drying while grinding is provided

Operation costs

- low specific wear costs and
- low specific electrical and thermal power consumption are provided in NEA systems for clay grinding

