

UNIVERSAL TECHNOLOGY



by Vladimir KONOVALOV, General Director,
MASHMIR Inno-Center (Moscow),
Valery ZUBKIN, Cand. Sc. (Tech.), head of the
RUSSKIYE KACHELY Project,
Nikolai KOROLEV, Project Chief Engineer

The development of new technologies for the manufacture of various products from powder materials has been and remains in the focus of experts' attention in this and other countries. In recent time, however, specialists have been increasingly attracted by studies of the mechanisms and processes of what they call the self-organization of such materials—the emergence of orderly structures from chaos. The main feature of such processes in abstract and theoretical terms consists in the fact that they are non-equilibrium and occur in open systems which differ from the closed ones by the fact that one can input not only energy, but also substances. The latter then reenter the sphere of their utilization but with an already orderly structure.

Shore with a belt of compacted sand.

