

Services deep in the ground



> REMEX underground stowage

Stabilisation of caverns in underground mining using stowage material produced from waste such as fly ash and filter dust

Safety above and below ground

Our stowage material
provides stability to disused
mine sections



In many regions of Germany, the mining of raw materials such as ores, metals and hard coal has ceased. However, German salt mining continues to be of great importance worldwide. In underground stowage, cavities that were created during rock salt or potash mining are stowed with waste for the purpose of stabilisation. Treated waste such as filter dust or fly ash from industry and waste incineration plants are used as the basis for stable underground stowage.



Secured for eternity

Due to the geogenic structure of rock salt and potash deposits, the mining and extraction fields are often embedded in a combination of water-impermeable salt and clay layers. Thus, the placement of waste in these cavities is characterised by the fact that potential pollutants are isolated from the environment in a long-term and safe manner.

Disposal of hazardous waste

Thermal waste treatment plants and air pollution control processes, for example, produce hazardous waste such as fly ash, filter dust and flue gas cleaning residues (APCr), which require safe and sustainable waste management solutions. In addition to heavy metals, PCBs, dioxins and furans, these wastes may also contain large quantities of soluble salts, which usually prevent their disposal in an above-ground landfill. For these and other hazardous wastes, underground recovery in salt rock is a legally compliant waste management option.

Broad acceptance spectrum

- Inorganic sewage sludge and drilling sludge
- Inorganic industrial production residues
- Contaminated soil from site remediation
- Filter dust from thermal waste treatment plants and flue gas cleaning systems
- Fly ash, bypass dust
- Gypsum from flue gas desulfurization plants
- Moulding and core sands from foundries
- Blasting abrasive residues
- Inorganic shredder material

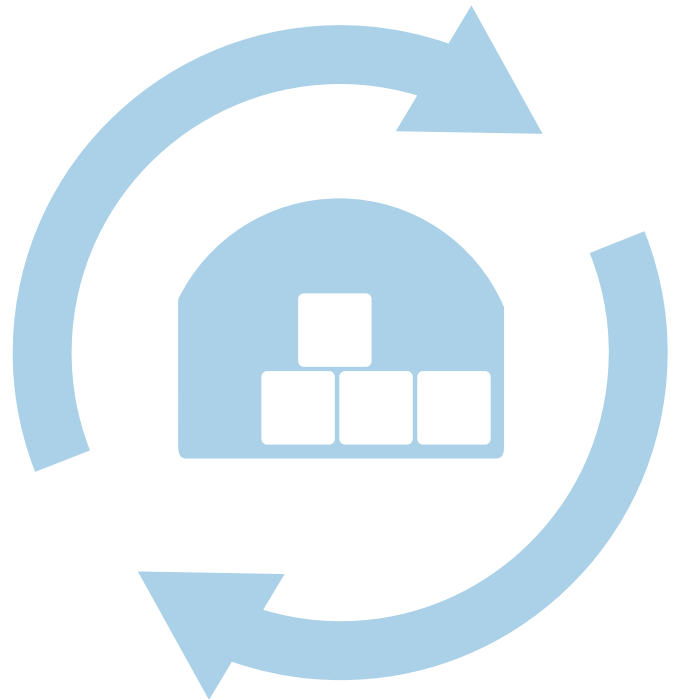
Approved stowage materials

REMEX only uses tested formulations for use in stowage. Optimised filling, supporting and binding qualities of the stowage materials produced ensure that the waste is securely bound and that all structural requirements for the geomechanical system are met.

Use of latest technologies

To ensure efficient and safe operation, the materials are transported underground using state-of-the-art technology according to specific requirements: in big bags by means of a conveyor cage, as hydraulic stowage material or as solidifying stowage material respectively via pipelines.

We have extensive experience in the manufacturing of stowage materials derived from different types of waste



aurec.de // minex-gmbh.de

AUREC Gesellschaft für Abfallverwertung und Recycling mbH and Minex GmbH are the specialists for underground stowage within our group of companies. For further information, please visit the individual company websites.





> SUSTAINABLE STABILISATION

Underground stowage: advantages for all

REMEX's strengths as a certified specialist waste management company are based on proven processes and the highest production standards for the ecological and economic benefit of our clients:

- Possibility of recovery instead of disposal
- Permanent isolation of stowage materials from the biosphere
- No penetration of hazardous pollutants into the ecosystem
- Considerable safety advantage over disposal in surface landfills
- Prevention of mining subsidence damage to the earth's surface
- High stowage efficiency through individually adapted processes



> Services at a glance

- Processing and subsequent recovery or disposal of various hazardous waste types
- Determination of the pollutant load and assistance with evaluation and classification of the type of waste
- Support in obtaining permits, verifications and documentation
- Notification for the shipment of foreign waste to Germany
- Transport and logistics services by truck, rail and ship in container, big bag or silo





WORKING FOR THE FUTURE

Being a specialist for managing and recycling mineral waste as well as for remediation work, underground stowage and landfill operation, REMEX is part of the REMONDIS Group, one of the world's largest recycling, service and water companies. The company group has branches and associated businesses in more than 30 countries across Europe, Africa, Asia and Australia. With over 30,000 employees, the group serves around 30 million people as well as many thousands of companies. The highest levels of quality. Working for the future.

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