

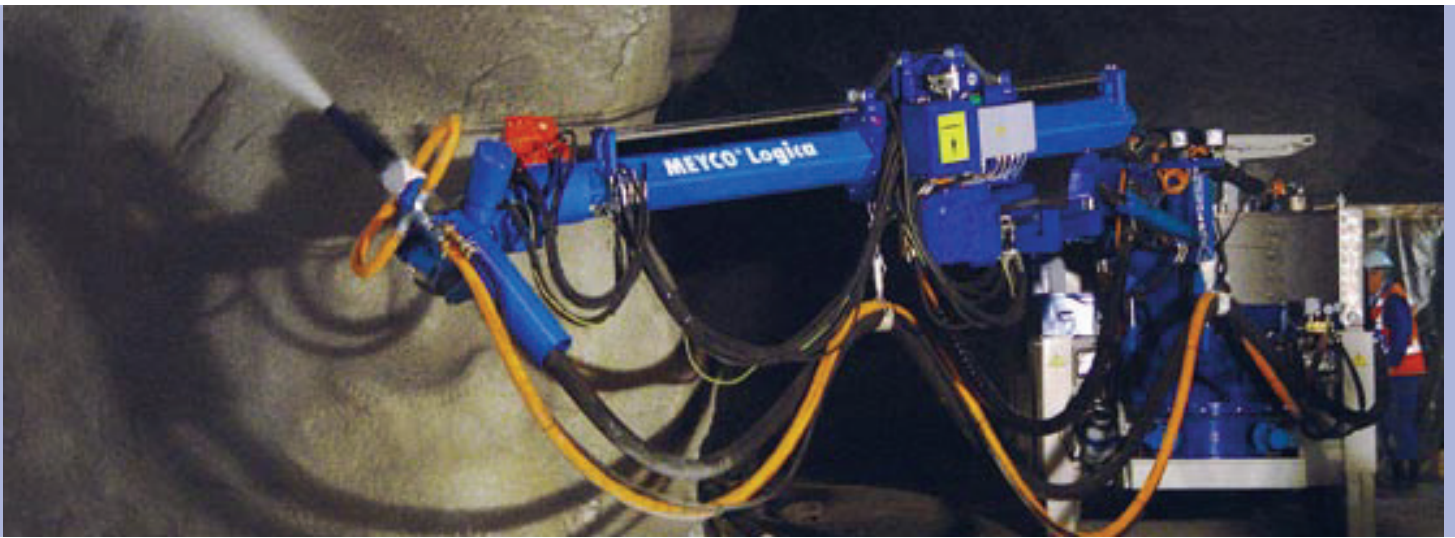
Solutions for tunnelling and mining

# Mining

Expanding Horizons

Underground

 **MEYCO**



## Introduction

### «Improved productivity»

UGC International is a world leader in the provision of reliable, customer oriented product solutions focused on your needs in the tunnelling and mining industries. We are part of BASF, The Chemical Company, a well established multinational company with extensive support frameworks and resources which you would expect from a leading worldwide construction chemicals supplier.

UGC recognises that your success is founded on delivering solutions that meet or exceed your customers' valuable needs. By integrating with you from project start-up and understanding the issues that are important to you, we can contribute to your success.

### «Enhanced safety»

As many underground projects attract international contractor and design teams, our global presence permits seamless transfer of technology and services to any of your projects, anywhere in the world.

UGC knows that creating a safe mining environment for efficient production is an absolute necessity for any mine operator. With today's vast array of increasingly sophisticated equipment, ground control techniques and materials, UGC continues to support mining partnerships by developing many of the technological advancements both in products and equipment that directly enhance safety and improve production in the mine environment.

Our mining experience covers USA, Canada, South Africa, South America, Australia and Europe. We are familiar with the needs of all underground mining systems.

MEYCO® Piccola and GM



MEYCO® Altera



MEYCO® Cobra





## Solutions à la carte

### «Total Package»

Through UGC's total system approach, we offer the mining sector the following key tools:

- Admixtures for sprayed concrete, concrete lining and roadways as well as accelerators, stabilisers, water reducers, fibres and curing systems

- MEYCO® Equipment – The world renowned sprayed concrete pumps and robotic manipulators, with robust mine-worthy chassis for use in confined space, such as the MEYCO® Logica, Cobra and Mamba, and specialty equipment like the MEYCO® Altera, GP 2000

### «Simplicity is the key»

- Our MASTERSEAL® range of THIN SPRAY-ON LINERS (TSL's), for fast, efficient surface rock support

- Backfill products to improve the efficiency of mine operations, be it for paste, cemented rockfill or foam concretes

- Anchor Grouting including cement cartridges, cement grout additives and bagged products for a complete range in anchor grouts

- Ground control systems to cover all encountered conditions

### «Rock solid support»

- Water control systems including the widest range of ground injection grouts

- Corrosion and Abrasion control systems suitable for metallurgical processing plants and ore passes respectively

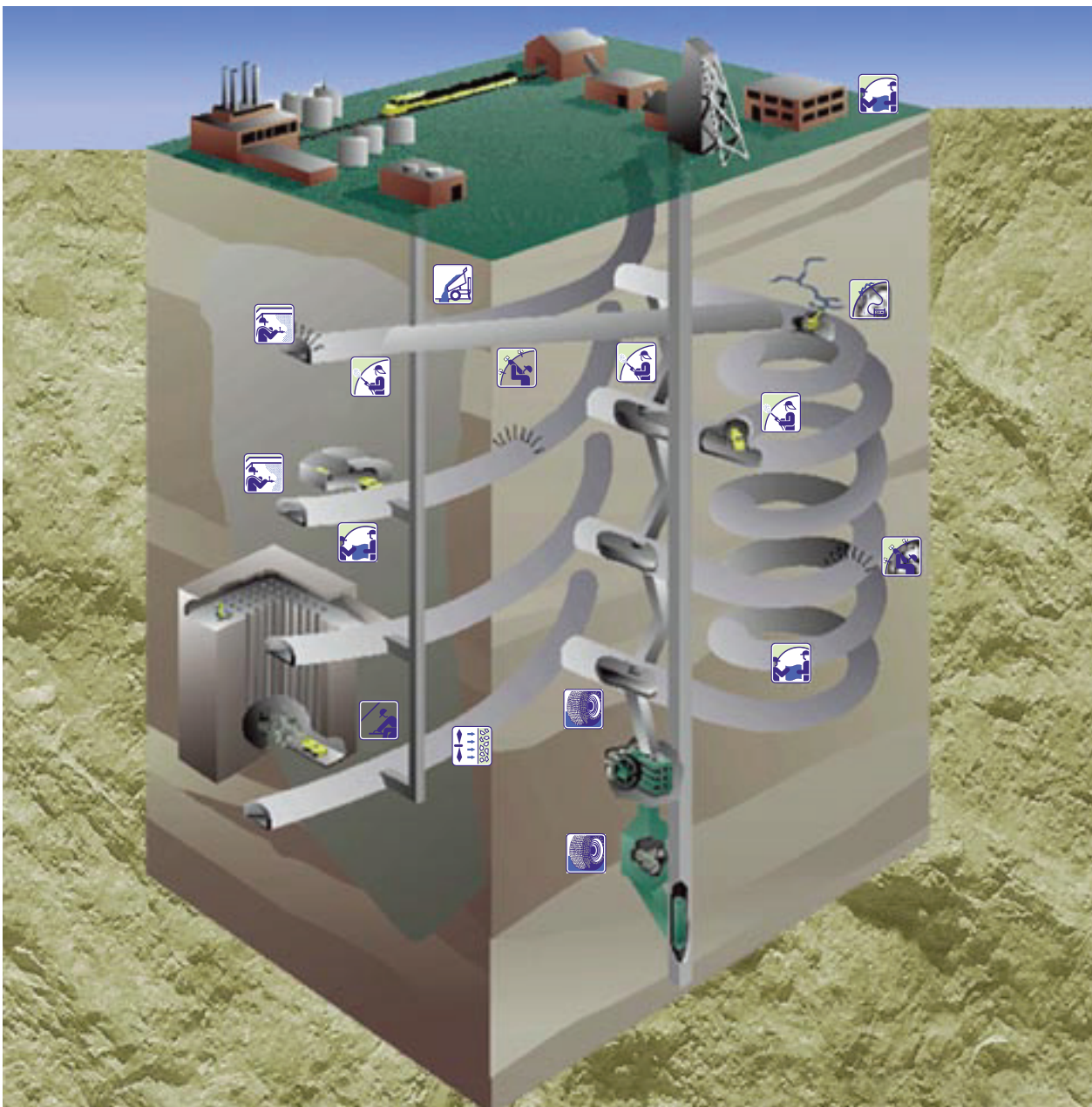
- PUR and Urea Silicate grouting systems for superior ground consolidation and low risk cavity filling.

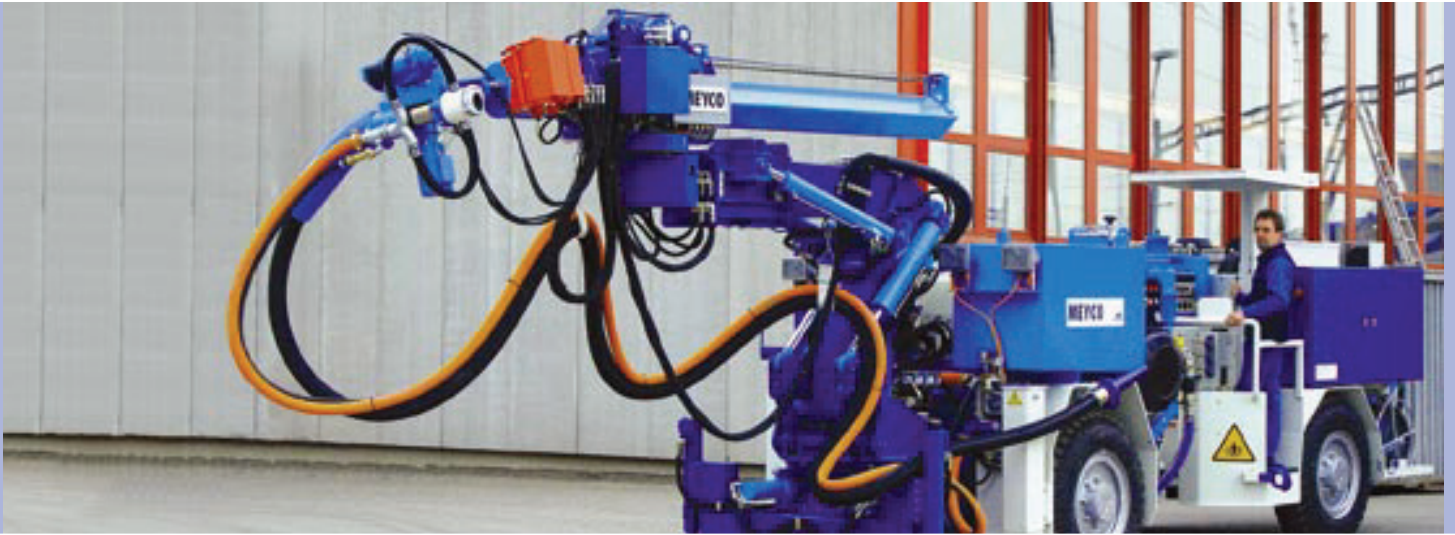
- Complete System Approach – with all mining products supplied by UGC, we compliment them with the correct equipment, advice and support from experienced mining personnel in your region.





## Applications à la carte





## Products

## Equipment

### Sprayed Concrete:

#### Total System Approach

UGC's unique range of dry & wet solutions give you safety, flexibility and economy for this important support activity.

- GLENIUM® Hyperplasticisers
- MEYCO® TCC 735 Bond Improver
- MEYCO® SA Alkali-Free Accelerators
- DELVO®CRETE Stabiliser – Hydration Control
- Steel & structural plastic fibres
- Colloidal silica

- MEYCO® Cobra, MEYCO® Oruga
- MEYCO® Suprema Pump
- MEYCO® Altera Pump
- MEYCO® Piccola, MEYCO® GM
- RDP Test Rig
- MEYCO® Logica Technology

### Rock Bolting:

#### Advanced Technology

Our specially formulated additives and pre-bagged grouts offer practical solutions.

- MEYCO® Minegrout
- MEYCO® Cablegrout
- Flowcable with Corrosion Protection
- MASTERBOND® Cementitious Cartridges

- GP 2000 Grout Pump
- MEYCO® Deguna

### Thin Spray-on Liners:

#### Fast Acting

Our rock support membrane is safe, simple and quick to apply.

- MASTERSEAL® 845 A
- MASTERSEAL® 855

- MEYCO® Piccola
- MEYCO® Oruga
- MEYCO® Rama

### Injection:

#### Ground Consolidation & Cavity filling

UGC has a complete range of water-sealing and ground consolidation products for all your needs.

- RHEOCEM® Microfine Cements
- MEYCO® MP Series 1 and 2 component PU's
- MEYCO® MP Series Urea Silicates
- MEYCO® MP 320 colloidal silica

- One and two component PU injection pump
- Packers, Lances etc.

### Backfill, Shaft and Roadway Concrete:

Our advanced concrete technology provides endless options when it comes to placing concrete underground.

- MEYCO® Minefill range of admixtures
- GLENIUM® Hyperplasticisers
- RHEOBUILD® Range of Plasticisers
- DELVO®CRETE Stabiliser
- GLENIUM® Ace for Self Compacting Concrete

### Corrosion and Abrasion:

We have proven abrasion resistant products as well as corrosion protection for processing plants.

- MEYCO® ANVILMINE 320/ MASTERTOP® 230
- MCI Corrosion Technology

- MEYCO® Piccola, MEYCO® GM
- MEYCO® Altera, MEYCO® Suprema

### Ventilation:

UGC has an impressive range of Ventilation Sealing Products including flexible rigid and spray-on membranes.

- MASTERSEAL® 800
- MASTERSEAL® 345
- MASTERSEAL® 845 A

- MEYCO® Deguna
- Piccola

### Service-Technical Support and Training:

We support all products with extensive on-site training and trouble-shooting. We have a worldwide team in excess of 250 specialists so **help is only a call away.**

UGC Expertise is always available to you underground. Our highly trained and experienced team will be there whenever needed.



## References à la carte

### North Americas

- Cameco, McArthur River Mine
- Boliden\*, Myra Falls Mine
- IMC, K2 Mine
- INCO, Froid/Stobie Mine
- Falconbridge, Kidd Creek Mine
- Agnico Eagle, Laronde Mine
- Williams Operating Corporation, Williams Mine
- Queenstake Resources USA, Inc., Jerritt Canyon Mine
- Barrick, Goldstrike Mines Inc.
- Newmont Mining Corporation
- Xstrata Zinc, Kidd Creek Mine
- Barrick/Teck/Cominco, Williams Operating Company
- Barrick/Teck/Cominco, David Bell Mine
- Xstrata Zinc, Nickel Rim South Mine
- CVRD Inco, Froid/Stobie Complex

### South America:

- DOE RUN PERU, Cobriza Mine, Peru
- CIA MINERA ATACOCHA, Atacocha Mine, Peru
- DOE RUN PERU, La Oroya Refinery, Peru
- Cia Minera Buenaventura, Orcopampa Mine, Peru
- Milpo, El Porvenir Mine, Pampa de Cobre Mine, Peru
- Volca Cia Minera, U.M. Yauli, Ticlio Mine, Peru
- Chungar, Chungar Mine, Peru
- Mineração Caraíba S.A., Caraíba Mine, Brazil
- Ferbasa – Cia. de Ferro Ligas da Bahia S.A., Ipueira and Medrado Mines, Brazil
- Votorantim Metais, Fortaleza de Minas Mine, Brazil

- Cia de Ferro Ligas da Bahia – Ipueira Mines, Medrado, Brazil
- AngloGold Ashanti – Cuiba Mine, Brazil
- Meridian Gold, Mina El Perion, Chile
- Breakwater, Mina El Toqui, Chile
- Codelco, Mina El Teniente, Andina El Salvador, Chaquicamata, Chile
- Minera La Cascada, Chile

### Asia, Australia:

- Rio Tinto Ltd
- North Parkes
- Argyle Diamond mine
- Kestrel Colliery
- Placer Dome Inc.
- Kanowna Belle
- Granny Smith
- Kundana
- Wallaby

### BHP – Billiton Ltd – Coal

- Westcliff Colliery
- Tower Colliery
- Crinum Colliery
- Dendrobium Colliery
- Appin Colliery

### Xstrata PLC

- Mt. Isa complex
- Oaky Creek Colliery
- West Wallsend Colliery
- Ulan Colliery
- United Collieries

### BHP – Billiton Ltd – Metaliferous

- Leinster
- Olympic Dam

### Barrick Gold Corporation

- Darlot
- Plutonic

### Newmont Mining Corporation

- Telfer
- The Granites
- Chariot
- Golden Grove
- Jundee
- Bronzewing
- Kalgoorlie Consolidated Gold Mines

### Europe

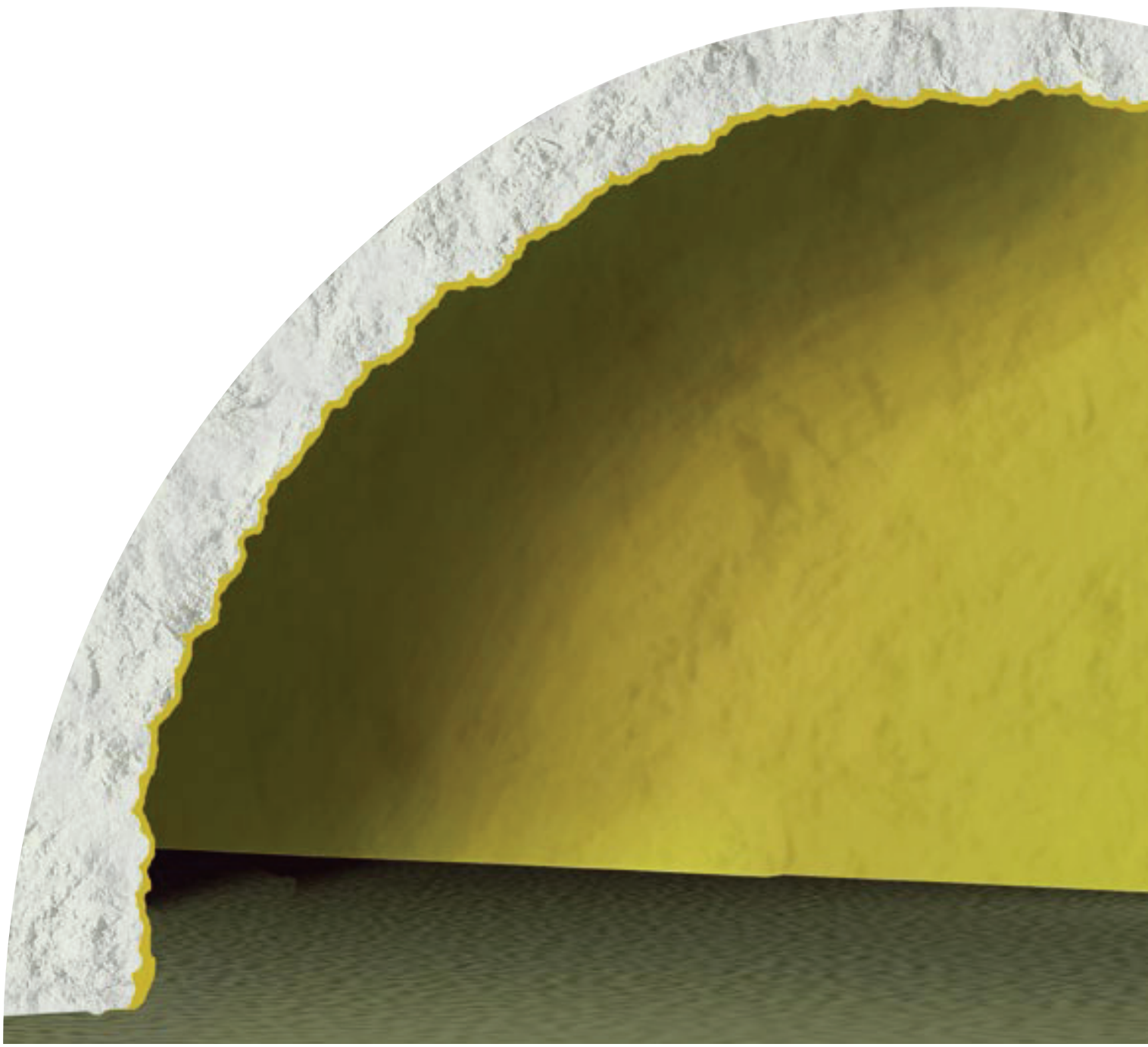
- Newmont Mining, Ovacik Gold Mine, Turkey
- Glencore & Ekin Mining, Gesom Mine, Turkey
- Dundee Precious Metals, Chelopech Mine, Bulgaria
- Kazzinc Kazakhstan, Leninogorsk Mine, Kazakhstan
- Kazaktmys, Zheskazgan, Zheskent Mines, Kazakhstan
- Kazzinc, Tishinskyi Mines, Kazakhstan
- Anglo American Mining, Lisheen Mine, Ireland
- Galmoy Mine, Ireland
- Boliden Mining, Tara Mine, Ireland

### South Africa:

- Placer Dome, South Deep Mine
- AngloGold, Ashanti Moab Khotsong, Tautona, Mponeng, Savuka Mines
- Rio Tinto, Palabora Mine
- De Beers, Premier & Finsch Mine
- Angloplatinum, Swartklip Mine
- Goldfields, Beatrix Mine
- Lonmin Hossy & Saffy Mines
- Anglo American, Black Mountain Mine

**«together...  
...we do things better.»**





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**MEYCO® Equipment Customer service**

MEYCO®, its affiliated companies and selected representatives worldwide offer competent advice, prompt service and efficient training for your personnel. We maintain service support centres in Switzerland, Germany, Norway, Turkey, USA, South and Central America, Middle East, China, India, South East Asia and Australia.

Being a part of BASF, The Chemical Company, is a major factor in our success.

Technical and design modifications remain reserved at all times. Technical properties have been achieved under theoretical and normal conditions. Please consult the respective machine manual for all matters related to safety, operation and maintenance.

Brochures on our solutions are available on [www.meyco.basf.com](http://www.meyco.basf.com):



Product liability: The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed.

**Certified quality**

Product Development Process  
is certified according to



Our products conform  
to EU standards

