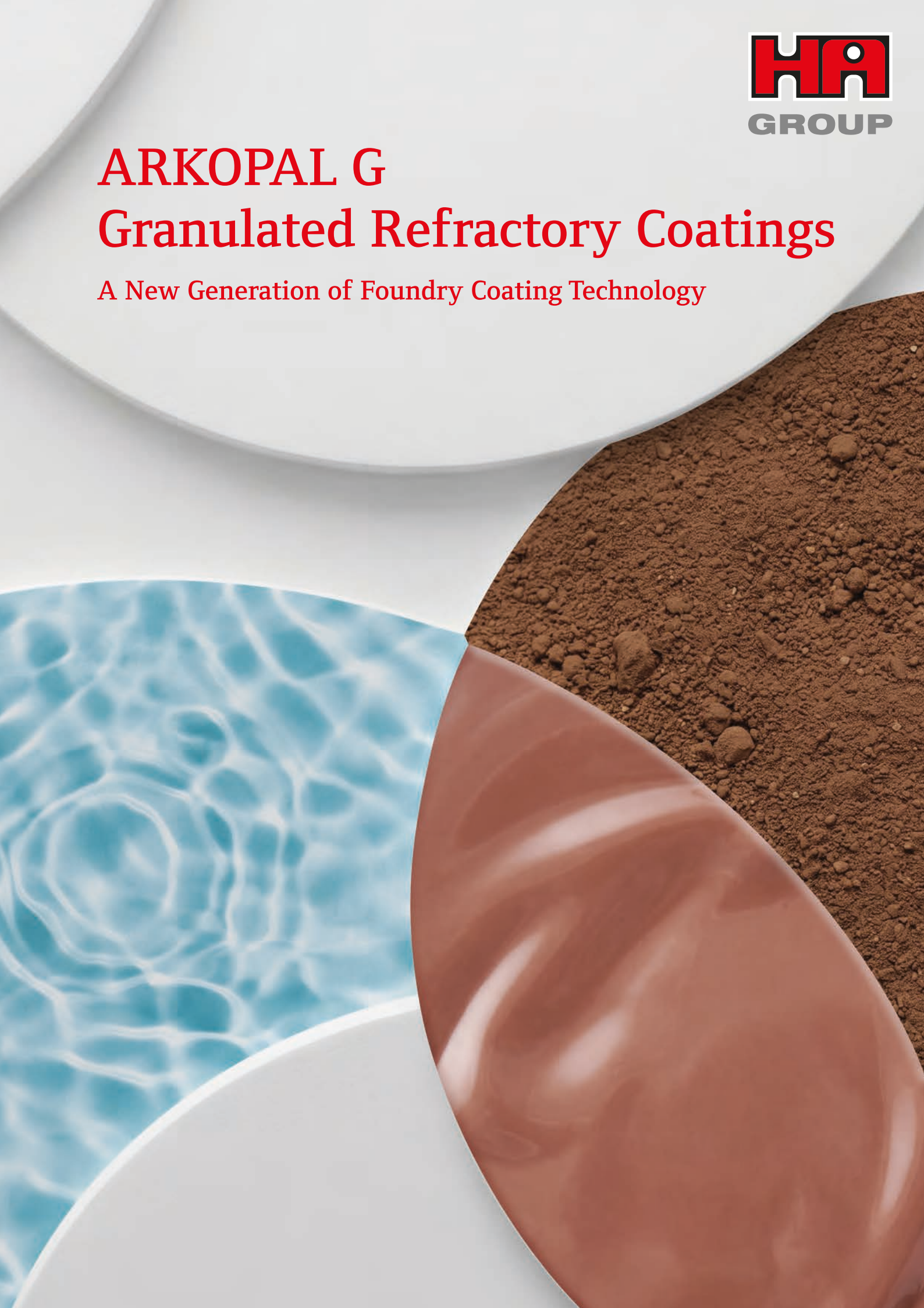


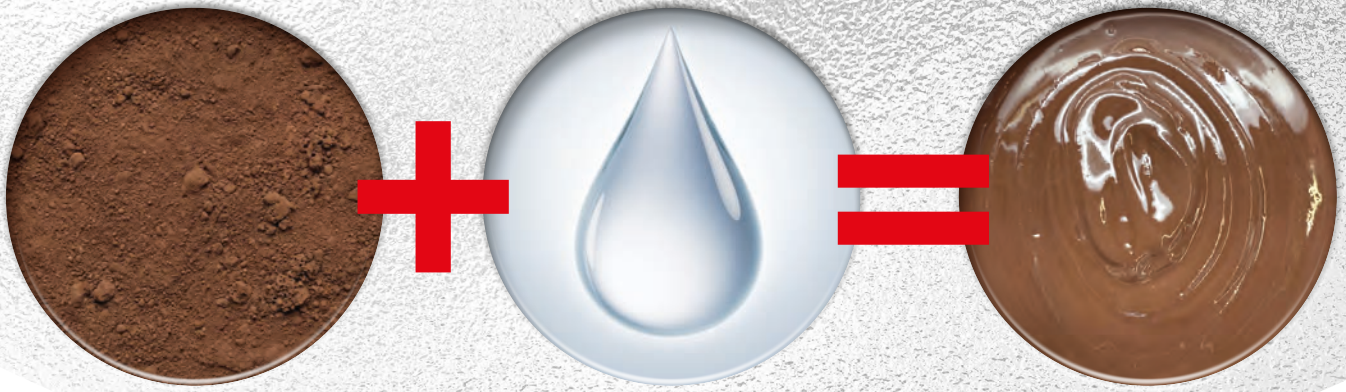
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Granulated Refractory Coatings

A New Generation of Foundry Coating Technology



Concept of granulated coatings — transformation from granulated material to ready-to-use slurry through on-site mixing.



Stop Shipping Water. Start Shipping Value.

Refractory coatings are essential in foundry processes to ensure surface quality and reliable casting performance. Traditionally, coatings are supplied as premixed liquids, requiring significant logistics, storage, and preparation effort.

Granulated coatings introduce a new approach. They are supplied in a concentrated, granulated form and prepared on-site with water — fresh, on demand.

Why Granulated Coatings

Granulated coatings separate transport from preparation.

Instead of shipping large volumes of water, only the active material is delivered and processed directly at the point of use.

This results in a more efficient, flexible, and sustainable coating process.

Key Advantages

→ On-demand preparation

Fresh coating when needed, ensuring stable and consistent quality

→ Reduced logistics effort

Lower transport volume and simplified material handling

→ Improved efficiency

Faster preparation and reduced process variability

→ Lower environmental impact

Reduced CO₂ footprint through minimized transport and packaging

→ Extended shelf life

Stable storage compared to conventional premix systems

Operational Benefits

→ Consistent coating performance

→ Reduced storage requirements

→ Simplified handling and preparation

→ Suitable for automated preparation systems



Granulated Preparation Unit
(GPU) with integrated
preparation system



Implementation

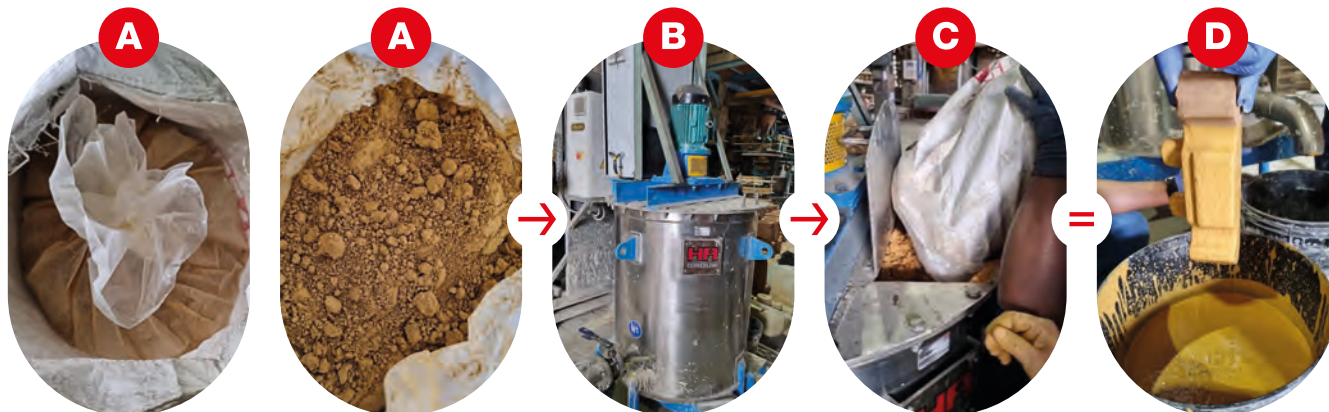
Granulated coatings are prepared using dedicated mixing systems designed for reliable and reproducible results. The technology can be integrated into existing foundry processes with minimal disruption.

A Step Toward the Future

Granulated coatings represent a shift toward more efficient, scalable, and sustainable coating solutions in the foundry industry — enabling improved process control and long-term operational benefits.

Efficient. Scalable. Ready for the next generation of foundry production.

- A:** Supplied material in sealed packaging: sack or super sack
- B:** Preparation equipment
- C:** Empty granular and fill up with water & mixing approx 10 min
- D:** Dilution 1:1 for ready-to-use product



Step-by-step preparation process using granulated coatings (example with bulk bag and water addition).

Frequently Asked Questions

What are Granulated Coatings?

Concentrated refractory coatings supplied in a moist granular form and mixed with water on-site.

How are they different from premix coatings?

They eliminate shipping water, reduce freight costs, and provide fresh, on-demand preparation.

Do they require new equipment?

Yes. A high-shear dispersion mixing system is required for proper preparation.

Does performance match premix coatings?

Yes. Performance is equivalent once properly prepared.

What utilities are required?

- Water
- Electrical power
- Compressed air

What is the shelf life?

Up to one year under proper storage conditions.

What packaging formats are available?

Current packaging offered includes drums and super sacks.

Where are the coatings manufactured?

Toledo, Ohio.

Technical Support and Customer Implementation

HA International supports implementation through a dedicated field technical services team.

Support includes:

- On-site implementation and startup
- Process optimization
- Laboratory testing and casting trials
- Evaluation of process and product changes

With access to fully equipped laboratories and partner foundries, HA International ensures successful adoption and long-term performance.

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