

THE NEW FACE OF REFRACTORY COATINGS IN INDIA



MPM-DURRANS REFRACTOAT PVT. LTD.

Mission

Our Quest...

... to be the “Vendors of Choice” for our customers by providing them with Foundry Solutions, Personalized and creating “Value-beyond-Quality” – while building a dynamic organization to sustain long-term business relevance of the company and collaterally – its people!

Business Values

The company expresses its business values similar to the values & ethics of its founding organisations - MPM Private Limited India- James Durrans & Sons Ltd., UK.

- **Honesty** in all aspects of enterprise and business dealings with our Customers, Suppliers and Business Partners all over the world.
- **Innovation** which is central to business relevance. We endeavor to look continuously at Products and Processes as well as marketing strategies that will power our growth beyond just basic competition.
- **Quality** to be developed as the main business tool for growth.
- **Commitment** to our Employees in terms of their health, welfare, personal growth and job-satisfaction.



About Ourselves...

In February 2007, MPM Pvt. Ltd. and James Durrans & Sons Ltd., UK joined forces to provide a comprehensive range of Refractory Coatings for the Indian Foundry Industry.

The company, MPM-Durrans Refracoat Pvt. Ltd., based in Nagpur, endeavors to provide a superior range of products for the Indian market by:

- Utilizing the extensive and long established sales and marketing of MPM Private Ltd., to offer premier service to its customers.
- Utilizing technological developments by James Durrans & Sons Ltd. to offer refractory solutions for all foundry applications.

Our Refractory Coatings product range finds application in Gray Cast Iron, Ductile Iron, Steel and Non-Ferrous Castings, covering all process types such as coatings for cores and molds made for Green Sand molding, Centrifugal castings, EPC/Lost foam castings, Permanent Mold Casting.

Specially formulated to resist Hot cracks, Veining, Metal Penetration and Sand burn-on, the products can be applied by either dipping, brushing or spraying.

REFEX

Solvent Based Refractory Coatings



REFEX is a range of **Solvent based**, ready to use Refractory Coatings.

Researched, developed and proven Refex Coatings include:

- **Refex-I002** : A range of Zircon based coating used for heavy wall section castings in carbon steel and stainless steel as it is a high temperature resistant coating with high refractoriness.
- **Refex-M** : A Magnesite based coating for Manganese steel castings again known for its ability to withstand high temperatures.
- **Refex-I502** : A Mixed refractory coating containing zircon and graphite for Ni-hard casting, providing good insulation and withstanding high temperatures.
- **Refex-G** : A range of Graphite based coatings used for Grey, Ductile Iron & Non-ferrous castings. It is suitable for all common sand binder systems. Also recommended as Socket Core Coating for D.I. Pipe Castings..

Applications:

- Suitable for cores and molds produced by Synthetic binder systems, Sodium silicate systems as well as Bentonite bonded systems.
- Range of coatings find application in Grey Cast Iron, Ductile Iron, Steel and Non-Ferrous Castings.
- Can be applied by dipping, brushing or spraying.
- Formulated to resist Hot Cracks, Metal Penetration and Burn-On.

After Treatment:

- Ignite the molds or core immediately after coating application or dry by hot air or blower.

Handling and Precautions:

- Refex range of coatings contains inflammable solvents and therefore should be handled and stored with care.
- These coatings typically have a shelf life of 90 days if stored in a cool and dry place.
- During the dip-application, ensure clean dip-tank.
- Keep away from direct sunlight, heat or flames.

MINCOAT

Water Based Refractory Coatings



MINCOAT is a range of Hydro based ready- to -use Refractory Coatings in paste form

Researched and developed coatings include:

- **Mincoat-SAI** : A range of mixed refractory coating suitable for various foundry applications and specifically known to reduce veining defects.
- **Mincoat-386I** : A mixed refractory coating with advanced rheology with control suspension agents and good bonding properties to give optimal performance.
- **Mincoat-1002** : A high Zircon based coating for heavy wall section castings made through Furon or No-bake systems as well as Green Sand Molding.
- **Mincoat-400M** : A special blend of silicates oxides & carbon in water for use as a refractory coating in foundry applications suitable for all ferrous castings of all sizes.
- **Mincoat -G** : A Graphite-based coating for Grey Cast Iron, Ductile Iron and Non-Ferrous Castings.

Applications:

- Suitable for molds and cores made from Resin Bonded Sand as well as Cold Box Systems.
- Find application in Grey Cast Iron, Ductile Iron, Steel and Non-Ferrous Castings.
- Can be applied by dipping, brushing or spraying.
- Formulated to avoid Veining, Metal Penetration and Burn-On.
- Can be supplied in paste form and give uniform and consistent coating, ensuring clean castings thus reducing casting cleaning costs.
- The versatility in application of these coatings enable user to brush, spray, swab, and flow coat the big castings.

After Treatment:

- Dry by hot air blower or in an oven.

Handling and Precautions:

- Mincoat coatings typically have a shelf life of 90 days if stored in a cool and dry place.
- During the dip-application, ensure clean dip-tank.
- Keep away from direct sunlight, heat or flames.

DIECOTE

Water Based Refractory Coatings



DIECOTE is a range of Hydro based coating for permanent metal mould during Centrifugal Casting applications.

Our range of researched, developed and proven Diecotes include:

- **Diecote-WB 6225 M** : An Aluminium Silicate based coating suitable for Ferrous and Non-Ferrous particularly suited for production of cylinder liners.
- **Diecote-845C** : An Alumina based coating for centrifugally cast steel – vertical and horizontal particularly for Tubes upto 6 mtr. in length. It can also be used in static permanent molds and for S.G. Iron Liner manufacturers and the production of centrifugally cast rolls.
- **Diecote -WB 50M** : An insulating Zircon based Refractory Coating suitable for steel, iron & Non-Ferrous castings.
- **DIECOTE – 600M** : An Alumino Silicate based Refractory Coating for application to permanent moulds during the centrifugal casting process. Suitable for Iron & Non-ferrous castings.

Applications:

- Suitable for the permanent mold Centrifugal Casting process, Vertical or Horizontal.
- Suitable for iron, steel and Non-ferrous applications.
- Specially formulated for consistent spray application.
- Used to achieve complex metallurgical structures and surface finish.

After Treatment :

- Dry cores by hot air or oven.

Handling and Precautions:

- During the dip-application, ensure clean dip-tank.
- Keep away from direct sunlight, heat or flames.
- Shelf life of Diecote coatings is typically 60 days if stored in cool and dry place.

TROUGH BLACKING



TROUGH BLACKINGS are a fully prepared Coating based on blend of Carbon and refractories for use on metal or ceramic lined Troughs and Fall Chutes during the production of Centrifugal cast pipes using Delavaud process.

- **Mincoat 20FB** : It is a prepared blacking containing all the necessary refractory, suspending and binding agents to give optimal performance on trough during pipe manufacturing. It is suitable for all types of trough.
- **Trough 200** : Supplying in powder form and strongly recommended for initial dispersion of powder in water. Suitable for all types of Runner and Fall Chutes and easy to patch and repair at high temperature.
- **Trough Blacking PS2** : Supplying in powder form and strongly recommended for initial dispersion of powder in water. Suitable for all types of Runner and Fall Chutes and easy to patch and repair at high temperature.

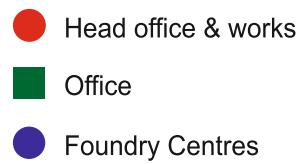
Applications:

- Suitable for metal or ceramic lined Troughs and Fall Chutes.
- Easy to patch and repair even at high temperature.
- Can be supplied in paste as well as powder form

Handling and Precautions:

- Keep away from the direct heat and sunlight.
- Has a shelf life of 60 days if stored in cool and dry place.
- When coating ensure cleanliness of tank.
- When coating ensure dispersion and consistency of the coating.

Design and Produced By MM Activ N/2010



Design and Produced By MM Activ /N/2010