



FORECOAT INDIA

INDUSTRIES

Foundry Coatings & Steel Fluxes



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FOUNDRY COATINGS

Product Description :-

Forecoat Foundry Coatings is developed for the metal casting industries containing high quality refractory material such as Natural Graphite, Zircon, Magnesite, Aluminium Silicates and Additional mixtures of the same. It imparts low reactivity to the metal of oxides & delivers excellent casting surface finish especially at high pouring temp.

Product Application :-

It is suitable for brushing, dipping & Spraying application of resin bonded complex core & mould in the production of the casting like cylinder blocks, cylinder heads and the hydraulics components. It is recommended for Grey Cast Iron, S.G. Iron, & Non ferro alloys. Heavy section cast iron & steel casting, copper casting.

Product Benefits :-

- Dipping application coupled with low preparation time & speedy deposit of coating on the cores offer high productivity.
- As it is ready to use form ensures through uniform mixing of all the ingredients during manufacturing.
- It offers wide uniform coverage which ensures good casting surface finish, free from vining & finning, sand fusion & penetration thus lowers the shot blasting, fettling & grinding costs.

Silent Features :-

High suspension properties
High Adhesion to the substrate
High Refractory Properties

FORECOAT FOUNDRY COATINGS SPECIFICATIONS

Sr. No.	Product Name	Apperance	Colour	Sp.Gr. gm/cc	Baume °Be	Viscosity	Sollid Con.	Shelf life	Packing
1	FORECOAT-ZR (Zircon Thinner Based)	Pourable Liquid	Off Green	1.50 ± 8	55 -60	14 to 16 sec	60-65 %	6 months	30 kg
2	FORECOAT-MG (Magnesite Thinner Based)	Pourable Liquid	Reddish	1.30 ± 8	45 -55	14 to 16 sec	60-65 %	6 months	25 kg
3	FORECOAT-AS (Al Silicate Thinner Based)	Pourable Liquid	Reddish	1.35 ± 5	45 -55	15 to 18 sec	50-55 %	6 months	25 kg
4	FORECOAT-GR (Graphite Thinner Based)	Pourable Liquid	Grey	1.02 ± 3	Nil	13 to 15 sec	20-30 %	6 months	20 kg
5	FOREFINISH-AS (Al Silicate Water Based)	Pourable Liquid	Reddish	1.45 ± 5	50 -55	20 to 25 sec	50-55 %	6 months	25 kg
6	FORESTICK -S (Core Gum Paste)	Paste	Reddish	1.65 ± 5	Nil	Nil	70 to 80	4 months	1 kg Pouch

FORECOAT - ZR



FORECOAT - GR



FORECOAT - AS



FOREFINISH - AS



STEEL FLUXES

Product Name :- FOREX - NOZZLE FILLING COMPOUND (Zircon Based)

FOREX - NOZZLE FILLING COMPOUND (Chromite Based)

FOREX - NOZZLE FILLING COMPOUND (Silica Based)

Product Application :-

Ladle And Tundish Nozzle Filling Compound Is A free - flowing Refractory Particular Material Used in The Ladle Or Tundish Sliding Gate to Prevent Sculling And Steel Freeze - off and Ensure Opening At The Start Of Casting.

Product Description :-Nozzle Filling Compound is A Highly Refractory, Granular Product With Selected Particle Size And Distribution Which Remains Flowable At High Temperature, Ensuring Consistent And Trouble Free Ladle Slide Gate Operation. Thus it results into free flowing when slide gate is opened it come out freely or with minor oxygen lancing establishing a very smooth strum flow from ladle Depending on Nozzle diameter as well as holding time of molten metal in ladle , granulomere of nozzle filling compound and chemical composition of refractory filter change .

Product Benefit :-

- It Insure Good Nozzle Opening Performance.
- Well Block and Nozzle Life is increased.
- It Minimizes the need for Oxygen lancing for opening slide gate nozzle

Product Application :-

- 1) NFC should be per -headed at around 100 O for about and hour to drive out any moisture.
- 2) The Nozzle cavity should be cleaned of slag and any refractory particles before application.

Packing :-25 kg HDPE Bag

FOREX- NFC SPECIFICATIONS

Sr No	Product Name	Apperance	Colour	Moisture	MGO %	ZR2O3 %	SiO2 %	Fe2O3 %	CaO %	CR2O3 %	Sieve Size	Packing
1	FOREX-NFC -ZR Nozzle Filling Compound (Zircon Based)	Granular	Black	Nil	1 to 2	25 to 30	20 to 25	9 to 10	1 to 2	25 to 30	0 to 1 MM	25 kg
2	FOREX-NFC -CR Nozzle Filling Compound (Chromite Based)	Granular	Black	Nil	6 to 7	Nil	35 to 40	8 to 10	1 to 2	25 to 30	0 to 1 MM	25 kg
3	FOREX-NFC -S Nozzle Filling Compound (Silica Based)	Granular	Black	Nil	Nil	Nil	96 to 98.5	Nil	Nil	Nil	0 to 3 MM	25 kg

FOREX - TCC / LCC : TUNDISH / LADLE COVERING COMPOUND

Product Description :-

FOREX - Radex is a neutral highly insulating powder product used to cover the top molten surface in a Steel Tundish / Ladle.

Product Application :-

After Tundish / Ladle rinsing is completed and the Tundish / Ladle metal temperature is homogenized, radex bags are thrown on top of the Tundish / Ladle metal surface. The recommended application rate is 1.00 – 1.50 Kg/MT of steel. The actual application rate, however, depends on specific plant practices, and should be standardized on the basis of actual field trials.

Products Benefits : -

01. Reduces radiation heat losses from the top surface of the Tundish / Ladle.
02. Helps to maintain consistent metal temperatures in the Tundish / Ladle.
03. Can be used as a cover for the Tundish / Ladle metal surface in slag free tapping as well.

Packing : 10 Kgs.HDPE Bag.

Shelf Life : One year from the Date of MFG

Chemical Composition :

FOREX- TCC/LCC SPECIFICATIONS

Sr. No.	Product Name	Colour	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	CaO %	MgO %	Moisture %	L.O.I. %	B.D. gm/cc
1	FOREX-TCC Tundish Covering Compound (Silica Based)	Blackish Grey	50 to 60	20 to 30	2 Max.	0.5 Max.	1.0 Max.	0.60 Max.	4 Max.	0.60 to 0.70
2	FOREX-LCC Ladle Covering Compound (Alumina Based)	Blackish Grey	70 to 75	10 to 15	2 Max.	0.5 Max.	1.0 Max.	0.60 Max.	4 Max.	0.75 to 0.80

FOREX-HTC/APC :- Hot-Topping Compound./ Exothermic Anti Piping Compound

Product Application :-

In case of pouring liquid metal in the mould, casting cools at a slower rate than riser metal. While cooling Casting metal shrinks & the metal is needed from the riser. But the riser metal is cooling at a faster rate. Hence to keep riser metal in the liquid form for feeding the Casting FOREX- HTC is used. The moment riser is filled with the metal.

FOREX- HTC is spread over the riser surface. FOREX- HTC starts burning after few seconds. The activity count of 65 is adjusted so as to generate heat & keep riser metal hot at a latter stage. FOREX- HTC swells and provides a insulating layer to retain the heat generated & helps in feeding and casting. FOREX- HTC is recommended for all riser sizes above 3" and heavy castings.

The heat generated during the exothermic reaction keeps the metal in liquid state for a longer period. The swelling property of FOREX- HTC provides insulation from the top to avoid radiation losses. No effect if stored in dry place.

Packing :- 25/50 Kg HDPE bags/Plastic pouch 2/5 Kgs.