

QUALITY TECHNOLOGIES PRIVATE LIMITED

TECHNICAL DATA SHEET: **REFCOAT 03**

PRODUCT DESCRIPTION

REFCOAT 03 are a range of Graphite water based refractory coatings for sand moulds and cores. These range of coatings can be used in the manufacture of Ferrous and Non-Ferrous Castings. When the mould or core is coated with REFCOAT 03, it enhances the surface refractoriness, thereby improving the surface finish of the casting. Presently the following grades of REFCOAT 03 are available in our range –

- REFCOAT 03 A – Powder and is recommended for general purpose applications.
- REFCOAT 03 B – Formulated for dip applications in automotive foundries.
- REFCOAT 03 C – Graphite/Chromite Paint for thick section iron castings wherein Metal Penetration is a problem.
- REFCOAT 03 D – Graphite/Zircon Paint for thick section iron castings wherein Metal Fusion is a problem.

HOW TO USE

REFCOAT 03 B / REFCOAT 03 C / REFCOAT 03 D are pasty liquids and must be diluted with suitable quantity of water and mixed thoroughly for brushing, spraying and swabbing applications. The mould or core has to be coated with this paint, air-dried and subsequently torch dried or oven dried. REFCOAT 03 A is a powder which has to be mixed carefully for either brushing / spraying applications. Direct Addition of excess water into the powder, and mixing is not advisable. To obtain good results add little quantity of water first, make the powder to paste and subsequently add suitable quantity as per the foundry requirement.

INDICATIVE SPECIFICATIONS

PROPERTY	RANGE			
PRODUCT NAME	REFCOAT 03 A	REFCOAT 03 B	REFCOAT 03 C	REFCOAT 03 D
Appearance	Black colour powder	Blackish pasty liquid	Black colour liquid	Grayish black paste
PROPERTIES OF PAINT AFTER MIXING WITH WATER				
Quantity of water	200ml to 300ml	195ml	130ml	230ml
Qty. of Refcoat 03	100 grams	100 grams	500 grams	500 grams
Baume ^o	18	18	55	50 to 60
Specific gravity	1.15-1.20	1.15-1.20	1.55-1.65	1.5 - 1.7
B4 cup viscosity	13-15 sec.	13-15sec.	B10 cup Viscosity : 10-20sec.	12-16 sec
Settling rate/hr	3%-6%	3%-6%	1%-2%	10 - 20%
Peel off	Nil	Nil	Nil	Nil
Shelf life	6 Months	6 Months	6 Months	6 Months

PACKING DETAILS

REFCOAT 03 is supplied in 30kg carboys while REFCOAT 03 A is supplied in 15kg HDPE bag. The products should be stored in cool and dry place.

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MATERIAL SAFETY DATA SHEET: **REFCOAT 03**

- 1. PRODUCT IDENTIFICATION**

Trade Name & Use : REFCOAT 03 A, REFCOAT 03 B, REFCOAT 03 C, REFCOAT 03 D - Graphite Based Refractory Coating

Manufacturer / Supplier : QUALITY TECHNOLOGIES PVT. LTD.
No.34, Road No.1, IDA Mallapur, Nacharam P.O.,
Hyderabad - 500076. PH:040-27153888, 27155828
Fax: 040-27152567, email : info@qtecindia.com
Website:www.qtecindia.com
- 2. INFORMATION ON COMPOSITION**

: Refractory fillers, Gellants and Synthetic Binders
- 3. HAZARDS IDENTIFICATION**

Flammability : No
Auto Ignition Temperature : No
Corrosive Material : No
Explosive Material : No
- 4. FIRST AID :-**

At inhalation, ingestion and contact with skin : Rinse with plenty of soap and water and if suspect symptoms persist
Eye Contact seek Medical advice.
- 5. FIRE FIGHTING MEASURES**

Fire : Not flammable.
- 6. ACCIDENTAL RELEASE MEASURES**

: Spillage should be washed away with water.
- 7. HANDLING & STORAGE :-**

Handling & Storage precautions : Keep in a cool and dry place.
- 8. EXPOSURE CONTROLS / PERSONAL PROTECTION :-**

Route of Entry : Skin
Effects of Exposure : Constant exposure and inhalation may cause mild irritation to the nose, eye and skin. Wash the affected area with lot of water and consult a doctor.
Personal protective equipment : Avoid direct contact with hands, use gloves wherever possible.
- 9. PHYSICAL AND CHEMICAL PROPERTIES :-**

Appearance : Creamish Black paste and powder
Physical state : Liquid & Powder
Odor : Specific odour
- 10. STABILITY AND REACTIVITY:-**

Chemical Stability : Stable
Incompatibility with : Data not available
Other materials
- 11. TOXICOLOGICAL INFORMATION :-**

On product : No data available
On Ingredients : No data available.
- 12. ECOLOGICAL INFORMATION :-**

On product : No data available
On Ingredients : No data available
- 13. DISPOSAL CONSIDERATIONS :-**

Empty Buckets : Never use empty buckets for storing food stuffs or other materials meant for human and animal consumption. Empty buckets may be sold as scrap or to HDPE recyclers approved by the State Pollution Control Boards.
- 14. TRANSPORT INFORMATION :-**

: Non-dangerous product for transportation by road, sea, air.
- 15. REGULATORY INFORMATION :-**

: No data available
- 16. OTHER INFORMATION :-**

: No data available

DISCLAIMER: This information is furnished without warranty of any kind. It is based on our knowledge and is believed to be reliable. This information does not contain any assurance of technical properties or suitability for a specific application or results. We reserve the right to change specs. without prior notice as a natural consequence of our continuous efforts in product development and improvement.