

# QUALITY TECHNOLOGIES PRIVATE LIMITED

## TECHNICAL DATA SHEET: **REFCOAT 04**

### PRODUCT DESCRIPTION

REFCOAT 04 are a range of Graphite spirit based refractory coatings for sand moulds and cores, used in the manufacture of Ferrous and Non Ferrous Foundry castings. Presently the following grades of REFCOAT 04 are available in our range –

- **REFCOAT 04 A** – Recommended for application on Co<sub>2</sub>/green sand moulds to improve the refractoriness of sand there by enabling better casting surface finish.
- **REFCOAT 04 B** – Formulated for core shop applications in Auto foundries where normally production requirements are huge.
- **REFCOAT 04 C** – Specially formulated for hand molding applications in cast iron foundries to withstand high ferrostatic pressures, metal penetration and sand fusion.
- **REFCOAT 04 D** –Formulated especially for high refractoriness requirement.

### HOW TO USE

REFCOAT 04 A, REFCOAT 04 B and REFCOAT 04 C are supplied in ready to use form. REFCOAT 04 D being a thick coating must be diluted with foundry solvent as per the prevailing foundry practice. However all the coatings must be diluted with solvent for spraying applications. The product has to be mixed well and than applied with a brush/swab/on to the moulds and cores. The mold or core has to be coated with this paint, lit off and subsequently torch dried. To obtain best results primary coated torch dried mold must be given a secondary coating, lit off and again torch dried for better insurance against surface defects.

### INDICATIVE SPECIFICATIONS

PROPERTY	RANGE			
	REFCOAT 04 A	REFCOAT 04 B	REFCOAT 04 C	REFCOAT 04 D
PRODUCT NAME	REFCOAT 04 A	REFCOAT 04 B	REFCOAT 04 C	REFCOAT 04 D
Appearance	Blackish liquid	Blackish liquid	Blackish liquid	Blackish liquid
Specific gravity	1.1-1.12	0.96-0.98	1.1-1.12	1.2-1.25
B4 cup viscosity	20-25sec.	11-12sec.	14-16sec.	14-17sec.
Coverage	0.06gm/sqcm.	0.15gm/sqcm.	0.08gm/sqcm.	0.15gm/sqcm.
Burning Time	70-75sec.	120-130sec.	50-55sec.	85-90sec.
Settling rate/hr	2%-3%	16-20%	3%-5%	2%-3%
Shelf life	6 months	6 months	6 months	6 Months

\* Burning time obtained from a CO<sub>2</sub> mould of 300sqcm.

### PACKING DETAILS

REFCOAT 04 is supplied in 30kg carboys. The product should be stored in a cool and dry place.

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## MATERIAL SAFETY DATA SHEET: **REFCOAT 04**

<b>1. PRODUCT IDENTIFICATION</b>	
Trade Name & Use	: REFCOAT 04 A, REFCOAT 04 B, REFCOAT 04 C, REFCOAT 04 D – 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 : <a href="mailto:info@qtecindia.com">info@qtecindia.com</a> Website:www.qtecindia.com
<b>2. INFORMATION ON COMPOSITION</b>	: Refractory fillers, Gellants and Solvents
<b>3. HAZARDS IDENTIFICATION</b>	
Flammability	: Yes
Auto Ignition Temperature	: 80°C
Flash Point	: 60°C
Corrosive Material	: No
Explosive Material	: Yes
<b>4. FIRST AID :-</b>	
At inhalation, ingestion and contact with skin	: Rinse with plenty of soap and water and if suspect symptoms persist seek Medical advice.
Eye Contact	
<b>5. FIRE FIGHTING MEASURES</b>	
Fire	: Flammable.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	: Spillage should be washed away with water.
<b>7. HANDLING &amp; STORAGE</b>	
Handling & Storage precautions	: Keep in a cool and dry place.
<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
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.
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
Appearance	: Black pasty liquids
Physical state	: Liquid
Odor	: Specific odour
<b>10. STABILITY AND REACTIVITY</b>	
Chemical Stability	: Stable
Incompatibility with	: Strong oxidizers, strong mineral or organic acids, and strong bases
<b>11. TOXICOLOGICAL INFORMATION</b>	
On product	: No data available
On Ingredients	: No data available.
<b>12. ECOLOGICAL INFORMATION</b>	
On product	: No data available
On Ingredients	: Biodegrades over a period in water
<b>13. DISPOSAL CONSIDERATIONS</b>	
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.
<b>14. TRANSPORT INFORMATION</b>	: UN:1230   T.D.G.Class: 3(6.1)   Pkg. Group : II
<b>15. REGULATORY INFORMATION</b>	: Hazardous
<b>16. OTHER INFORMATION</b>	: Updated on 30.11.2012

**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.