

QUALITY TECHNOLOGIES PRIVATE LIMITED

TECHNICAL DATA SHEET: **REFCOAT 07**

PRODUCT DESCRIPTION

REFCOAT 07 is a basic refractory water based coating for sand moulds and cores, used in the manufacture Hadfield manganese steel castings and as a Sulphur Dioxide barrier coating in Nobake Moulds. Silica sand is acidic in nature and reacts with manganese which is basic in nature. Since an acid–base reaction leads to poor casting finish, **REFCOAT 07** is formulated with basic fillers, which when coated on the mold forms an intermediate protective barrier and prevents metal mould reaction. In the case of Nobake moulds wherein Sulphur Dioxide is generated, this coating reacts with the nascent gas and prevents its reaction with the residual magnesium on the casting surface.

HOW TO USE

REFCOAT 07 A is a powder which has to be mixed carefully for brushing / swabbing / spraying applications. Direct Addition of excess water into the powder, and mixing is not advisable. To obtain best results add little quantity of water first, make the powder to paste and subsequently add suitable quantity as per the foundry requirement. The mould/core has to be coated with this paint, air–dried and subsequently torch dried. **REFCOAT 07 B** is a Ready mix Water Based Paint. Care should be taken to ensure that thick coating leads to peel off and blister formation.

INDICATIVE SPECIFICATIONS

| PROPERTY | RANGE | RANGE |
|--|-----------------------|----------------------|
| PRODUCT NAME | REFCOAT 07 A | REFCOAT 07 B |
| Appearance | Creamish white powder | Creamish White Paint |
| PROPERTIES OF PAINT AFTER MIXING WITH WATER | | |
| Quantity of water | 1000 ml. | 200 ml. |
| Quantity of powder | 1 Kg. | 0.5 Kg. |
| Specific gravity | 1.45–1.50 | 1.50–1.60 |
| B4 cup viscosity | 14–15sec. | 18–22sec. |
| Settling rate/hr | 10–12% | 5% |
| Peel off | Nil | Nil |
| Shelf life | 6 months | 6 months |

PACKING DETAILS

REFCOAT 07 A is supplied in 20 kg HDPE bag, **REFCOAT 07 B** is supplied in 20 kg HDPE Bucket and should be stored in a cool and dry place.

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MATERIAL SAFETY DATA SHEET: **REFCOAT 07**

1. **PRODUCT IDENTIFICATION**
Trade Name & Use : REFCOAT 07 A, REFCOAT 07 B – Refractory Coating
Manufacturer / Supplier : QUALITY TECHNOLOGIES PVT. LTD.,
No.34, Road No.1, IDA Mallapur, Nacharam P.O.,
Hyderabad – 500076. PH:040-271 53888, 271 55828
Fax: 040-271 52567, email : info@qtecindia.com
Website:www.qtecindia.com
2. **INFORMATION ON COMPOSITION** : Refractory fillers, Gellants and Water
3. **HAZARDS IDENTIFICATION**
Flammability : Yes
Auto Ignition Temperature : 80°C
Corrosive Material : No
Explosive Material : Yes
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 : Non-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 white pasty liquid
Physical state : Liquid
Odor : No 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

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