

QUALITY TECHNOLOGIES PRIVATE LIMITED

TECHNICAL DATA SHEET: **DIECOAT 04**

PRODUCT DESCRIPTION

DIECOAT 04 is an insulating coating for use in gravity die casting applications. **DIECOAT 04 A** is a specially formulated coating for insulating characteristics. This coating retards the rate of heat extraction from the molten metal by forming an insulating layer between the metal and the die. When applied preferentially on the down sprue ingates and risers it ensures that the metal in these locations solidifies slower than the parent casting. Selective use in down sprue ingates and riser will therefore reduce the tendency for shrinkage in the parent casting. **DIECOAT 04 R** is specially formulated with higher insulation characteristics for use as a coating on risers.

HOW TO USE

DIECOAT 04 A and **DIECOAT 04 R** are normally available as a pasty liquids. The coating is suitable for both swabbing and spraying applications. Depending upon the type of application selected the coating has to be diluted with sufficient quantity of water mixed thoroughly and then swab/sprayed. The coating should swabbed/sprayed on a hot die. In case of swabbing applications it is advisable to use a cotton swab instead of a paint brush since the later is more prone to burning out and sticking on a hot die. Care should be taken to ensure that excessive coating is not deposited in pockets and deep corners on the die as this could lead to casting defects. Even though the coating is recommended for ingates, downsprues and risers, it is suitable for the casting cavity as well.

INDICATIVE SPECIFICATIONS

PROPERTY	RANGE	
	DIECOAT 04 A	DIECOAT 04 R
PRODUCT NAME	DIECOAT 04 A	DIECOAT 04 R
Appearance	Creamish White Paint	Creamish White Fibrous Paste
Specific Gravity	2 - 2.3	2.2 to 3
Water Addition for Spraying Consistency	200 to 400 ml for 500Gms. of Paint	180 to 250 ml for 500Gms. of Paint
Sp. Gr. of Spraying Consistency	1.2 - 1.3	1.3 - 1.5
B4 Viscosity of Spraying Consistency	18 to 30 Sec.	20 to 30 Sec.
Settling Rate of Spraying Consistency	< 5 ml after 1 Hr.	< 5 ml after 1 Hr.

PACKING DETAILS

DIECOAT 04 is supplied in 20kg Buckets. The product should be stored in a cool and dry place. Shelf Life of these products are 6 Months.

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MATERIAL SAFETY DATA SHEET: **DIECOAT 04**

1. PRODUCT IDENTIFICATION

Trade Name & Use : DIECOAT 04 – Waterbase Diecoat
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@qtechindia.com
Website: www.qtechindia.com

2. INFORMATION ON COMPOSITION

: Water based paint with Insulating Refractory Fillers.

3. HAZARDS IDENTIFICATION

Flammability : No
Auto Ignition Temperature : None
Explosive Material : No

4. FIRST AID :-

At inhalation, ingestion and contact with skin : Rinse with plenty of water and if suspect symptoms persist seek
Eye Contact : Medical advice.

5. FIRE – FIGHTING MEASURES :-

Fire : Not Flammable

6. ACCIDENTAL RELEASE MEASURES :-

: Spillage should be swept away and washed away with water wherever
required.

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 may cause mild stinging of 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
Odour : Synthetic Odour

10. STABILITY AND REACTIVITY :-

Chemical Stability : Stable
Incompatibility with : No data available
Other materials
Hazardous reaction product : None

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 Carboys : Never use empty Carboys for storing food stuffs or other
materials meant for human and animal consumption. Empty Carboys 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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