



Paints

High Performance

COATING SYSTEMS



**A High Performance Package for
Commercial and Industrial Paint Specifiers**

ICI Paints Picks Up Ammonia Storage Sphere Challenge

A challenging project at Terra Nitrogen (UK) site at Billingham, presented ICI Paints with the perfect opportunity to demonstrate the capabilities of its ICI Epoxy Hi-Build Systems.

The Ammonia Ball is a spherical metal storage vessel for ammonia which is kept under pressure. This storage process means that the steel temperature changes from ambient to as low as -28°C . At this low temperature the vessel is completely covered with ice.

Under these severe conditions, the previous coating had completely broken down revealing an even older coating. The ICI Paints survey identified this coating as a lead based primer. The specification ICI Paints delivered to safely remove this hazardous primer and protect the substrate was to wet abrasive blast clean the surface and then apply the ICI Paints Hi-Build Epoxy System. This system consists of a surface tolerant two-pack winter cure primer; ICI Epoxy Hi-Build 710 Aluminium Primer, followed by two coats of a hi-build two pack winter cure intermediate/finish; ICI Epoxy Hi-Build 711 Micaceous Iron Oxide.

The work had to be done during shutdown and as such, within a tight time window. Careful planning, project management, system specification

and application were all crucial to the success of the contract.

The operating owner of the sphere is understandably pleased with the results;

"We have found that the ICI Paints system is more than adequately withstanding the extremes of temperature with no return of corrosion."





ICI Paints High Performance Coating Systems

Introduction

Anyone faced with meeting the paint specifying requirements of non-domestic or industrial environments - like factories, breweries, industrial buildings, even chemical plants - will know that conventional paint systems do not provide the total solution. Specialist coatings which offer high protection and specific application characteristics are needed. The very nature of the activities or processes which might take place in these sorts of environments also means the coatings may need to withstand the rigours of chemical attack, be resistant to abrasion, high humidity and condensation or mould growth.

Finally, the wide variety of substrates - such as structural steel, concrete or steel floors, iron or polished aluminium - demand specially formulated products to optimize durability and long term protection under demanding conditions.

ICI Paints High Performance Coating Systems An Unrivalled 'Service and Product Package'

No other manufacturer is as well placed as ICI Paints to understand the paint specification needs of industrial environments. For years the company has been channelling its resources - those of the world's largest paint company - to provide solutions to painting problems experienced in these severe environments.

Today ICI Paints offers a comprehensive range of high performance coating systems for industrial and commercial use. The long-term protection offered by these products means reduced maintenance cycles and even more value for money. Innovation and quality are the hallmarks of this product range. These, together with full technical support and on-site services from ICI Paints, offer specifiers and contractors everything they require for a successful, cost effective result.

