



VINCIT 645

WHAT VINCIT 645 DOES

VINCIT 645 IS A WATER-BASED CORROSION PROTECTIVE COATING DESIGNED FOR THE PROTECTION OF FINE FERROUS METALS IN DEMANDING OUTDOOR MARINE CONDITIONS WITH A STRONG RESISTANCE.

THE PRODUCT IS NON-HAZARDOUS FOR SHIPPING AND CAN BE READILY SHIPPED BY ROAD, RAIL, SEA OR AIR. IT IS A STABLE AQUEOUS EMULSION CONTAINING ADVANCED SYNTHETIC COPOLYMERS, SPECIALISED CORROSION INHIBITORS, LEVELLING AND DRYING AIDS.

THIS HIGHLY EFFECTIVE COATING DRIES QUICKLY AND IS UNIQUE IN THAT THE COATING IS BLuish WHEN WET BUT DRIES TO FORM A CLEAR, TOUGH CORROSION PREVENTIVE FILM WHICH IS RESISTANT TO MECHANICAL DAMAGE.

FEATURES

- EASY AND INEXPENSIVE TO APPLY BY PAINTBRUSH, ROLLER OR AIRLESS SPRAYING
- WATER BASED SO MINIMAL ENVIRONMENTAL IMPACT
- SELF-INDICATING WHEN DRY (BLuish COLOUR WHEN WET)
- DRIED FILMS SHOW NO DELAMINATION, BRITTLINESS OR CRACKING AFTER REPEATED TEMPERATURE CYCLES BETWEEN -26°C AND AMBIENT TEMPERATURE
- FILMS REMAIN HARD AND NON-TACKY AT TEMPERATURES IN EXCESS OF 70°C
- EXTREMELY LOW VOC EMISSIONS
- MEDIUM TO LONG TERM PROTECTION, UP TO 9 MONTHS AND BEYOND, WITH CORRECT PREPARATION AND APPLICATION
- A TOUGH CLEAR COATING IS PRODUCED WITH GOOD RESISTANCE TO MECHANICAL DAMAGE
- THE HARD COATING PRODUCED IS CLEAR WHICH WILL ALLOW STENCIL MARKING ON THE PIPE TO BE VISIBLE
- A RELATIVELY QUICK DRYING TIME OF AS LITTLE AS 10-15 MINUTES UNDER OPTIMUM DRYING CONDITIONS
- SUITABLE FOR MOST CLIMATES
- GOOD RESISTANCE TO UV
- NON-HAZARDOUS FOR SHIPPING





APPLICATIONS

WELL MAINTAINED STOCKS OF OCTG ARE ESSENTIAL GIVEN THE SEVERE FORCES APPLIED DURING OFFSHORE OPERATIONS. FAILURE OF A PIPE STRING IS EXPENSIVE PARTICULARLY IN COMPARISON TO THE RELATIVELY LOW COST OF PRESERVATION WITH A COATING, SUCH AS VINCIT 645. FORMULATED TO PRESERVE THE EXTERNAL BARE METAL SURFACES OF HIGH VALUE ASSETS SUCH AS OCTG, BOTH IN TRANSIT AND STORAGE.

FERROUS, NON-FERROUS AND LIGHT ALLOYS CAN ALL BE EFFECTIVELY PRESERVED AGAINST CORROSION WITH THIS EFFECTIVE WATER BASED COATING.THEREFORE MANY BARE METAL ITEMS WHICH NEED TO BE TRANSPORTED OR STORED WILL BENEFIT FROM THE USE OF VINCIT 645.

NEAT PRODUCT DATA	
STORAGE	IMPORTANT: PROTECT FROM FROST - STORE ABOVE 5°C
PRODUCT REF / CODE NO.	VINCIT 645 / 208306
PACKAGING	HDPE OPEN TOP DRUM
PACK SIZE	210KG (NOMINALLY 205L)
PRODUCT APPEARANCE	MOBILE WHITE LIQUID
FLASH POINT	N/A WATER BASED
SOLIDS CONTENT	30.0% ± 2%
SHELF LIFE	2 YEARS IN UNOPENED CONTAINERS
ECOLOGICAL INFORMATION	LOW BIOACCUMULATION POTENTIAL
VOC	30 GRAMS PER LITRE

COATING DATA	
COATING APPEARANCE	CLEAR
LENGTH OF PROTECTION	UP TO 1 YEAR*
FILM THICKNESS	WET: 50-175 MICRONS* DRY: 15-53 MICRONS*
COVERAGE RATE	VARIABLES DEPENDING ON METHOD OF APPLICATION BUT FOR ESTIMATION PURPOSES 7M ² PER L + 10% CONTINGENCY (BASED ON 150 MICRON WFT) *
DRYING TIME	DEPENDANT UPON AMBIENT CONDITIONS BUT TYPICALLY: TOUCH DRY 10-15 MINUTES, OVERCOAT 1 HOUR, CURED DRY 12 HOURS
<i>*VARIANCES IN SURFACE PREPARATION AND METHOD OF APPLICATION MAY GIVE RISE TO RESULTS OUTSIDE THE STATED PARAMETERS</i>	



APPLICATION NOTES

PREPARATION FOR COATING

ANY BARRIER COATING SERVES TO PREVENT THE ESTABLISHMENT OF CORROSION CELLS BY PREVENTING MOISTURE FROM CONTACT WITH THE METAL SURFACE. IN ORDER TO GAIN MAXIMUM PERFORMANCE FROM VINCIT 645 IT IS THEREFORE IMPORTANT TO ENSURE THAT THE SURFACE IS CLEAN, DRY AND FREE FROM ACTIVE CORROSION CELLS BEFORE COATING COMMENCES. ADHESION CAN BE IMPAIRED IF THE COATING IS APPLIED ON TOP OF AN EXISTING COATING SUCH AS "MILL VARNISH" WHICH MAY LATER CAUSE PROBLEMS. IDEALLY FULL REMOVAL OF OLD COATINGS IS OUR RECOMMENDATION BUT IF LEFT IN PLACE THEN PHYSICAL DISRUPTION TO THE SURFACE, I.E. POWER WIRE BRUSHING, TO CREATE A KEY IS ESSENTIAL AND MAY REDUCE THIS CONCERN.

AN IDEAL SURFACE IS NEAR WHITE METAL WITH A SURFACE PROFILE TYPICALLY 30 TO 50 MICRONS AS ACHIEVED BY S A 2 ½. IT IS RECOGNISED THAT UNDER FIELD CONDITIONS SUCH PREPARATIONS ARE NOT ALWAYS POSSIBLE. TECHNIQUES INVOLVING WIRE BRUSHING AND WATER BLASTING ARE SOMETIMES EMPLOYED. IN THESE CASES, IT IS VITAL THAT NOT ONLY LOOSE SCALE BUT ALSO TRACES OF OILY, GREASY AND WAXY SOILS ARE REMOVED IF THE OPTIMUM PERFORMANCE OF VINCIT 645 IS TO BE REALISED. THIS IS BECAUSE THOSE RESIDUES MAY CONTAIN ACTIVE HYDRATED CORROSION CELLS WHICH ARE MERELY COVERED OVER BY THE BRUSHING ACTION AND THEN BECOME REACTIVATED UNDERNEATH THE COATING.

THE USE OF WIRE BRUSHING TECHNIQUES WILL BE GREATLY ENHANCED BY EITHER SOLVENT CLEANING OR STEAM CLEANING PRIOR TO THE MECHANICAL PROCESS.

THE DURATION OF PROTECTION ACHIEVED DEPENDS, TO A LARGE EXTENT, ON HOW GOOD THE SURFACE PREPARATION IS AND ATTENTION TO THIS PROCESS IS IMPORTANT. IN SIMPLE TERMS, PROVIDING THE COATING IS WELL APPLIED, THE BETTER THE SURFACE THE LONGER THE COATING WILL PROTECT.

COATING APPLICATION

VINCIT 645 IS A WATER BASED EMULSION THAT IS SUPPLIED ESSENTIALLY READY FOR USE. DURING TRANSPORTATION AND STORAGE THERE IS POTENTIAL FOR SOME SETTLING TO OCCUR AND THEREFORE STIRRING THE PRODUCT PRIOR TO USE IS ADVISED.

A VARIETY OF APPLICATION TECHNIQUES ARE POSSIBLE INCLUDING AIRLESS SPRAYING, PAINT ROLLING AND BRUSH. OUR RECOMMENDED APPLICATION IS BY AIRLESS SPRAY. IF BRUSHES AND ROLLERS ARE USED CARE SHOULD BE EXERCISED TO PREVENT COATING "DRAG" IN VIEW OF THE SHORT TIME REQUIRED TO ACHIEVE TOUCH DRY FILMS. UNDER EXTREME AMBIENT TEMPERATURE CONDITIONS (>80°C SURFACE TEMPERATURE) WETTING THE SUBJECT WITH WATER WILL ASSIST IN ACHIEVING AN EVEN DRYING BY DELAYING RAPID EMULSION BREAK.

TO CHECK THE WET FILM THICKNESS DURING APPLICATION WE RECOMMEND THE USE OF A "COMB" TYPE W.F.T. GAUGE IN QA SINCE THIS INVARIABLY MEASURES THICKNESS "OVER PROFILE".

THE DRYING TIME OF THE COATING VARIES IN RESPONSE TO AMBIENT TEMPERATURE, HUMIDITY AND VENTILATION. TOUCH DRYNESS MAY BE ACHIEVED WITHIN FIFTEEN MINUTES BUT FULL MECHANICAL STRENGTH MAY NOT DEVELOP FOR SEVERAL FURTHER HOURS. THE COATING SHOULD NOT BE EXPOSED TO DIRECT RAINFALL OR WATER UNTIL COATING IS DRY.



VINCIT 645 REMOVAL

VINCIT 645 IS NOT DESIGNED TO BE REMOVABLE AND IS THEREFORE DIFFICULT TO REMOVE.

SHOT BLASTING WILL EASILY REMOVE THE CURED COATING AND WHILE CHEMICAL REMOVAL IS POSSIBLE IT IS NOT RECOMMENDED.

SHOULD FURTHER ADVICE ON REMOVAL BE REQUIRED PLEASE CONTACT AGMA LIMITED.

HEALTH AND SAFETY

SEE SEPARATE SAFETY DATA SHEET

THE INFORMATION CONTAINED IN THIS DATA SHEET IS ACCURATE TO THE BEST OF OUR KNOWLEDGE AND BELIEF. NO WARRANTY IS, HOWEVER, GIVEN OR IMPLIED. CONSULT AGMA LTD CONCERNING ALL NON-STANDARD APPLICATIONS.

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