VINCIT 120 – METAL PRESERVATION

VINCIT 120 IS A WATER-BASED THIN FILM CORROSION PREVENTIVE COMPOUND SPECIFICALLY DEVELOPED FOR THE INTERNAL SURFACES OF OCTG.

IT READILY WETS AND COVERS PREPARED METAL SURFACES TO DEPOSIT A COHERENT, LIGHTWEIGHT ANTI-CORROSIVE FILM ON DRYING. THE COATING IS WATER SHEDDING, GAS IMPERMEABLE, ACID REPELLENT AND RESISTANT TO THERMAL 'SAG', WHILST BEING ULTIMATELY SOLUBLE IN HYDROCARBON PRODUCT STREAM.

THE VINCIT 120 COATING CONTAINS NO HEAVY METALS, CATALYST POISONS OR HYDROCARBON - INCOMPATIBLE COMPOUNDS AND IS SAFE AND PLEASANT IN USE. THE AQUEOUS EMULSION IS VIRTUALLY FREE FROM VOLATILE ORGANICS WITH A VOC CONTENT OF <10G/L.

FEATURES

- SPECIFICALLY, THE INTERNAL SURFACES OF OCTG
- EASY AND INEXPENSIVE TO APPLY
- WATER BASED SO MINIMAL ENVIRONMENTAL IMPACT
- MINIMAL VOC'S <10G/L
- MEDIUM TO LONG TERM PROTECTION, 6 TO 12 MONTHS AND BEYOND, WITH THE CORRECT PREPARATION AND APPLICATION
- THE COATING PRODUCED IS TRANSLUCENT WHICH AIDS THE INSPECTION OF THE METAL SURFACE WITHOUT NEED FOR REMOVAL
- A RELATIVELY QUICK DRYING TIME

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 120. FORMULATED TO PRESERVE THE INTERNAL BARE METAL PURFACES OF THESE HIGH VALUE ASSETS, BOTH IN TRANSIT AND STORAGE WITH CLOSED END PROTECTORS FITTED.
IN ADDITION TO OCTG MOST ITEMS OF FERROUS, NON-FERROUS AND LIGHT ALLOYS CAN BE ALL EFFECTIVELY PRESERVED AGAINST CORROSION. EITHER BARE METAL INTERNAL SURFACES OR BARE METAL ITEMS STORED INDOORS CAN BE PROTECTED.

NEAT PRODUCT DATA	
STORAGE	**IMPORTANT – PROTECT FROM FROST! STORE ABOVE 5˚C**
PRODUCT REF / CODE NO.	VINCIT 120 / 19002
PACKAGING	HDPE OPEN TOP KEG

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PACK SIZE	25KG (NOMINALLY 25L)
PRODUCT APPEARANCE	INITIALLY A LIQUID THAT SETS TO BECOME AN OFF-WHITE SOLID
FLASH POINT	N/A WATER BASED
SOLIDS CONTENT	23% ± 2.0%
ECOLOGICAL INFORMATION	BIODEGRADABLE - NO BIOACCUMULATION POTENTIAL
SHELF LIFE	2 YEARS IN UNOPENED CONTAINERS

COATING DATA	
COATING APPEARANCE	TRANSLUCENT, ALMOST CLEAR
LENGTH OF PROTECTION	OPTIMUM PERFORMANCE 12 MONTHS*
FILM THICKNESS (TYPICALLY)	WET: 100-200 MICRONS* DRY: 25-50 MICRONS*
COVERAGE RATE	VARIES DEPENDING ON METHOD OF APPLICATION BUT FOR ESTIMATION PURPOSES 6M^2 PER L + 10% CONTINGENCY
DRYING TIME	DEPENDANT UPON AMBIENT CONDITIONS BUT TYPICALLY TOUCH DRY 15 TO 60 MINUTES, CURED DRY 12 HOURS
**VARIANCES IN SURFACE PREPARATION AND METHOD OF APPLICATION MAY GIVE RISE TO RESULTS OUTSIDE THE STATED PARAMETERS*	

Application Notes

VINCIT 120 CONTAINS PROTECTIVE MATERIAL, TOGETHER WITH WETTING AND STABILISING AGENTS. THE CONTINUOUS PHASE IS A DEMINERALISED WATER SYSTEM INCORPORATING CORROSION INHIBITORS.

VINCIT 120 WILL NOT WET-OUT ON HARD SURFACES IF OIL OR GREASE ARE PRESENT. FOR OPTIMUM RESULTS, METAL SURFACES SHOULD BE OIL-FREE. A SIMPLE TEST CAN BE CONDUCTED BY SPOTTING PURE WATER ONTO THE PREPARED SURFACE. THE DROPLET SHOULD SPREAD OUT READILY RATHER THAN REMAINING AS A DROPLET.
AN IDEALLY RECEPTIVE PROFILE IS REPRESENTED BY A BLASTED FINISH WITH A PROFILE BETWEEN 10 AND 50µ ON NEAR WHITE METAL (SA 2 ½).

VINCIT 120 SHOULD BE USED AS SUPPLIED.

THE PRODUCT REQUIRES CAREFUL PREPARATION PRIOR TO APPLICATION. VINCIT 120 IN STORAGE BECOMES A SOFT SOLID AND MAY EXHIBIT “CREAMING”. IN ORDER TO LOWER THE VISCOSITY AND RESTORE THE PRODUCT TO A HOMOGENOUS STATE STIRRING IS REQUIRED FOR BETWEEN 30 TO 60 MINUTES. THE MOTION NEEDS TO BE “GENTLE” TO AVOID INTRODUCING AIR INTO THE SOLUTION. HEATING THE PRODUCT DURING THIS PROCESS IS ADVANTAGEOUS AS IT HELPS LOWER THE VISCOSITY. SITTING THE VINCIT 120 CONTAINER IN A SLIGHTLY LARGER VESSEL CONTAINING HOT WATER IS A QUICK AND SIMPLE WAY TO ACHIEVE THIS.

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APPLICATION TECHNIQUES MAY COMPRISE AIRLESS SPRAYING, SWABBING, DIPPING OR SPONGE-PIGGING AS DICTATED BY LOCAL CONDITIONS. IN ALL CASES THE APPLICATION TECHNIQUE SHOULD BE REFINED TO OFFER A UNIFORMLY WETTED FILM, FREE FROM EXCESS AND FREE FROM ENTRAINED AIR BUBBLES.

COMBINATION TECHNIQUES SUCH AS AIRLESS SPRAYING FOLLOWED BY SPONGE-PIGGING HAVE PROVED TO BE PARTICULARLY AND CONSISTENTLY RELIABLE.

THE IDEAL WET FILM THICKNESS IS 100 TO 200 MICRONS OVER PROFILE. WE RECOMMEND THE USE OF A "COMB" TYPE W.F.T. GAUGE IN QA SINCE THIS INVARIABLY MEASURES THICKNESS "OVER PROFILE". IDEALLY THE WET FILM SHOULD BE EVEN AND FREE FROM RUNS OR COLLECTIONS. BLAST PROFILE IS SIGNIFICANT IN DETERMINING THIS PROPERTY.

ISO - SA 2.5 Very thorough blast cleaning

When viewed without magnification, the surface shall be free from visible oil, grease and dirt and shall be free from millscale, rust, paint coatings and foreign matter. Any remaining traces of contamination shall show only as slight stains in the form of spots or stripes

Cleaning method	Description	Swedish / ISO	SSPC	NACE
Abrasive blast	Near white metal / very thorough clean	SA 2.5 ISO 8501 :Latest Edition	SP 10	2

Example of surface prepared to SA 2.5

WHERE VINCTI 120 IS USED AS AN INTERNAL TUBE COATING, IT SHOULD BE THOROUGHLY DRIED BEFORE CLOSING THE TUBE WITH **CLOSED-END THREAD PROTECTORS**. THIS STAGE IS CRITICAL.

IN CONDITIONS OF LOW TEMPERATURE OR HIGH HUMIDITY, DRYING CAN BE ASSISTED BY A LIGHT CURRENT OF WARM AIR.

AFTER APPLICATION AND DRYING BY EVAPORATION, THE PROTECTIVE FILM WILL BE PERCEPTIBLE TO THE TOUCH BY ITS SLIGHT DRAG OR FRICTION. IT WILL NOT BE WET OR VISIBLE. A WATER SPOT TEST AS IN 2, SHOULD NOW SHOW A PERSISTENT WATER DROPLET.

DRIED FILMS OF VINCIT 120 ARE UNAFFECTED BY THREAD COMPOUNDS APPLIED SUBSEQUENTLY. VINCIT 120 APPLIED TO IN-PLACE THREAD COMPOUNDS WILL NOT WET OR INTERACT WITH THOSE COMPOUNDS. CONSIDERATE WORKING PRACTICES ALLOW THE TWO SYSTEMS TO COMPLEMENT EACH OTHER.

VINCIT 120 APPLIED TO CLEAN BLASTED EXTERNAL TUBE SURFACES WILL FUNCTION EFFECTIVELY AS A SHORT TERM PRESERVATIVE COATING IN ON-SHORE PREPARATION FOR RAPID DEPLOYMENT OF STORED TUBING AND CASING.

VINCIT 120 IS AN AQUEOUS SYSTEM. IT MUST BE PROTECTED FROM FREEZING IN STORAGE, TRANSIT, APPLICATION AND DRYING.

WET FILMS OF VINCIT 120 WILL NOT CORRODE METAL SUBSTRATES DURING NORMAL DRYING CYCLES.
DRIED FILMS OF VINCIT 120 ARE IRREVERSIBLE WITH RESPECT TO DISPERSIBILITY IN WATER.

VINCIT 120 REMOVAL

IN THE MAJORITY OF APPLICATIONS, VINCIT 120 REMAINS IN PLACE AND IS DISPERSED HARMLESSLY IN SERVICE.

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WHERE IT IS DESIRABLE TO REMOVE DRY FILMS OF VINCIT 120 FOR INSPECTION OF REFINISHING, STEAM CLEANING WITH ALKALINE DETERGENTS SUCH AS AGMA PDI 19 IS RECOMMENDED.

SHOULD FURTHER ADVICE ON REMOVAL BE REQUIRED CONTACT AGMA LIMITED.

HEALTH AND SAFETY

SEE SEPARATE SAFETY DATA SHEET

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