

B.G.A.S. PAINTING INSPECTION

HYGROSCOPIC (OSMOTIC) BLISTERS



TINY, PIN HEAD SIZE,
WATER FILLED BLISTERS.
CAUSED BY
HYGROSCOPIC SALTS
(IRON SULPHATES AND
IRON CHLORIDES)

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SURFACE PREPARATION

DRY ABRASIVE BLASTING

ABRASIVES

COPPER SLAG.
EXPENDABLE. USE
ONCE ONLY, IT
SHATTERS ON
IMPACT. IT IS
NON METALLIC



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SURFACE PREPARATION

DRY ABRASIVE BLASTING, ABRASIVES

CONTAMINATED

COPPER SLAG. MUST
NOT BE RE-USED.



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SURFACE PREPARATION

DRY ABRASIVE BLASTING, ABRASIVES

GARNET. MINERAL,
CAN BE EXPENDABLE
OR CAN BE RE-CYCLED ,
AS DESIRED. MUST BE
CLEANSED BEFORE
RE-USE



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SURFACE PREPARATION

DRY ABRASIVE BLASTING ABRASIVES

METALLIC GRIT.
MUST BE RECYCLED
FOR ECONOMIC
REASONS. NOT USED FOR
SITE WORK MUST BE
CLEANSED BEFORE RE-
USE



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DRY ABRASIVE BLASTING ABRASIVES

METALLIC SHOT

USED IN ENCLOSED SYSTEMS, NEEDS TO BE CLEANSED BEFORE RE-USE. GRADUALLY WEARS DOWN CYCLE BY CYCLE.



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DRY ABRASIVE BLASTING ABRASIVES

METALLIC GRIT AND SHOT
MIXED. RATIO DEPENDS ON
SPEC. AS DOES THE PARTICLE
SIZES. USED IN ENCLOSED
SYSTEMS. GRIT CUTS THE
PROFILE, SHOT CONTROLS
THE PEAKS



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DRY ABRASIVE BLASTING ABRASIVES

PARTICLE SIZE DISTRIBUTION, SIEVES TO BS 410



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SURFACE PROFILE ASSESSMENT

SURFACE COMPARATOR TO BS 7079 Pt C, ISO 8503

SHOT BLAST COMPARATOR.
NOT TO BE USED FOR
SURFACE CLEANLINESS.
ONLY FOR ASSESSMENT OF
SHOT BLASTED SUBSTRATES.
GRIT BLAST COMPARATOR
CAN ALSO BE USED ON
SUBSTRATES BLASTED WITH
GRIT/SHOT MIX



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RUST GRADES (very very important)



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RUST GRADES (very very important)



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DRY ABRASIVE BLASTING

MEASURING PRESSURE AT THE NOZZLE

HYPODERMIC NEEDLE
GAUGE

INSERT THE NEEDLE THROUGH
THE HOSE WITH THE NEEDLE
TOWARDS THE NOZZLE, AT
AN ANGLE OF APP. 45
DEGREES



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PAINT TESTING

DENSITY

THE DENSITY (SG) CUP

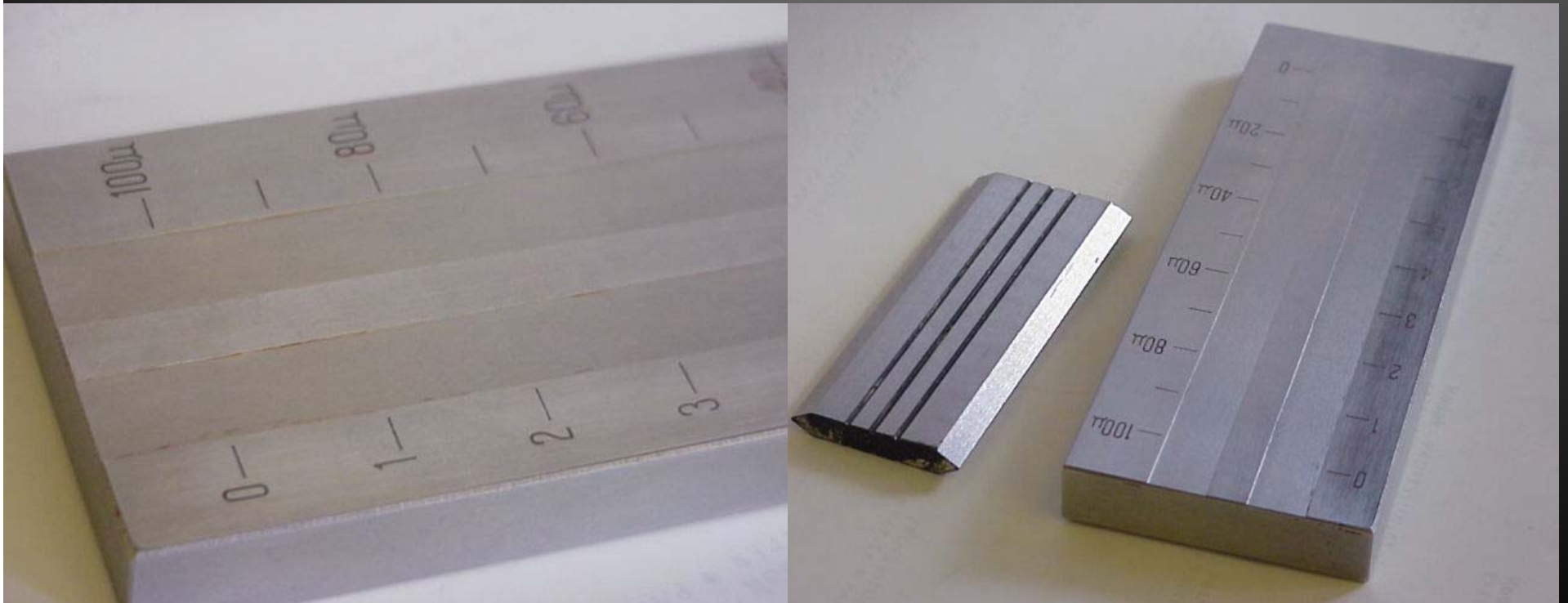


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PAINT TESTING

HEGMAN GRIND GAUGE

FOR FINENESS OF GRIND, DEGREE OF DISPERSION



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PAINT TESTING, VISCOSITY

ROTATIONAL VISCOMETER WITH
ROTOTHINNER MEASURES
DYNAMIC VISCOSITY. UNITS,
POISES



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PAINT TESTING. VISCOSITY
KREBS STORMER VISCOMETER
KINEMATIC VISCOSITY
DRIVEN BY A FALLING
WEIGHT, THE HEAVIER
THE WEIGHT THE
FASTER IT ROTATES.
CRITERIA 200 RPM
UNITS STROKE OR POISE



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PAINT TESTING

FLOW VISCOSITY

A FORD FLOW CUP

FORD FLOW CUP IN ITS RETORT
AND SHOWING THE 4mm DIA
HOLE



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PAINT TESTING VISCOSITY. FORD FLOW CUP



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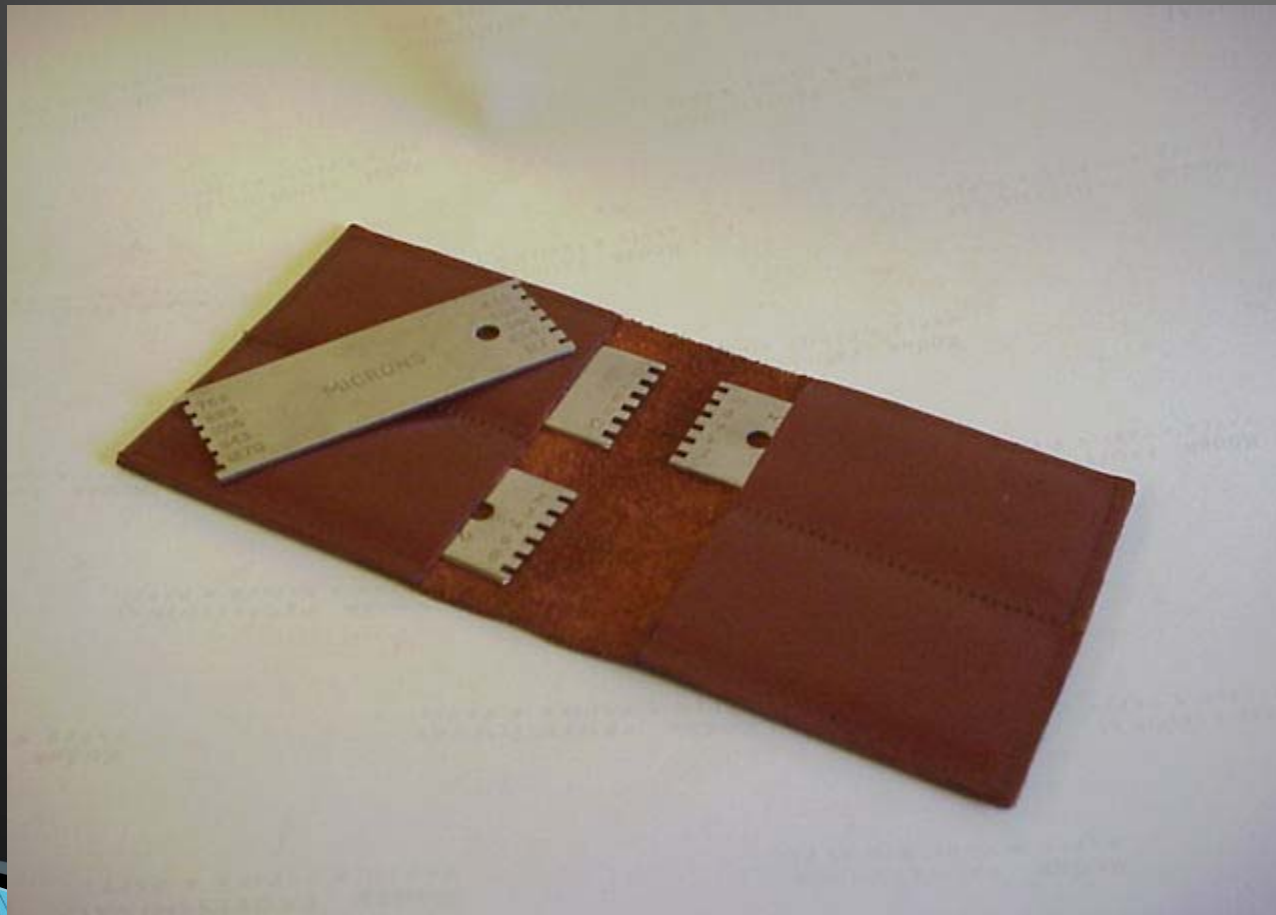
PAINT FILM MEASUREMENT, WET FILM
ECCENTRIC WHEEL



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WET FILM THICKNESS MEASUREMENT

COMB GAUGES



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DESTRUCTIVE TEST GAUGES THE P.I.G.



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DRY FILM THICKNESS MEASUREMENT, MAGNETIC.

THE TINSLEY PENCIL



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DRY FILM THICKNESS MEASUREMENT, MAGNETIC,
HORSESHOE GAUGE



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DRY FILM THICKNESS MEASUREMENT, MAGNETIC,
THE BANANA GAUGE MODEL 111



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DRY FILM THICKNESS MEASUREMENTS, MAGNETIC

THE BANANA GAUGE MODEL 211

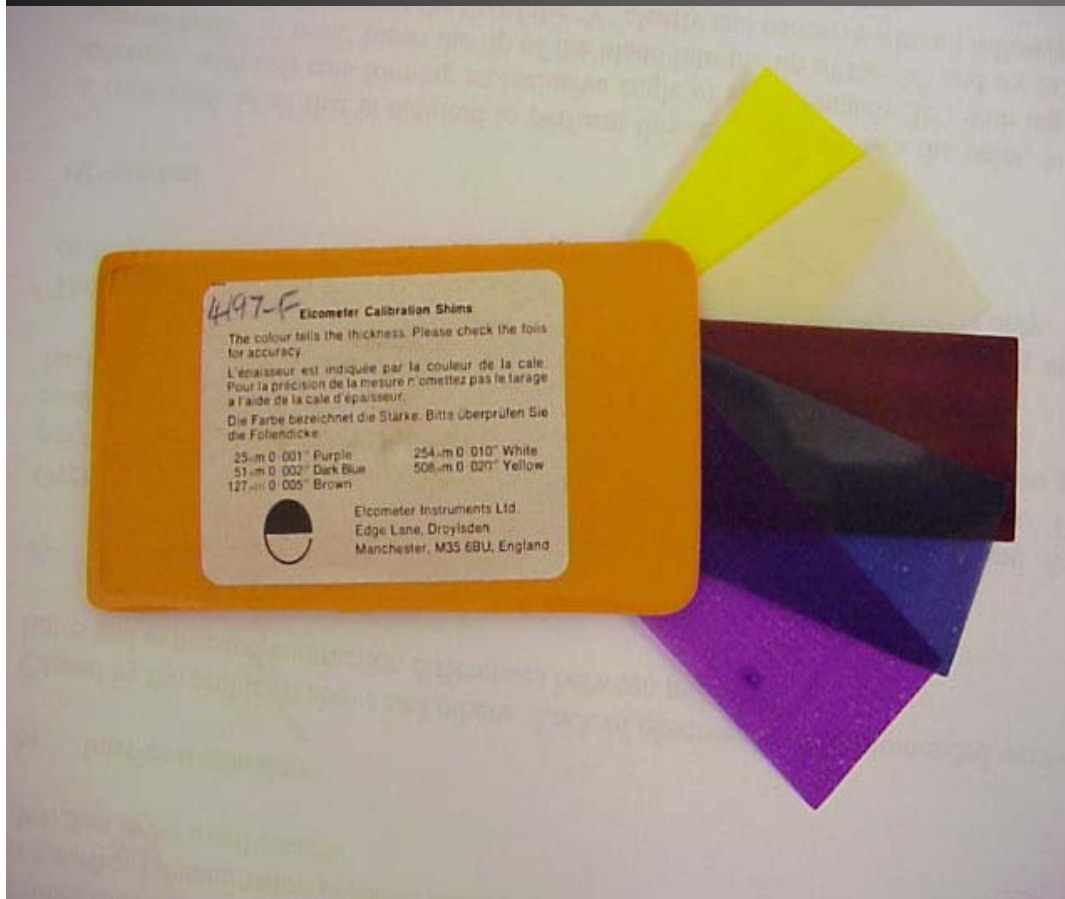


SCALE MOVES TO
THE CURSER

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DRY FILM THICKNESS MEASUREMENT

COLOUR CODED CALIBRATION SHIMS



PURPLE 25µm

BLUE 50µm

BROWN 125µm

WHITE 250µm

YELLOW 500µm

nominal values

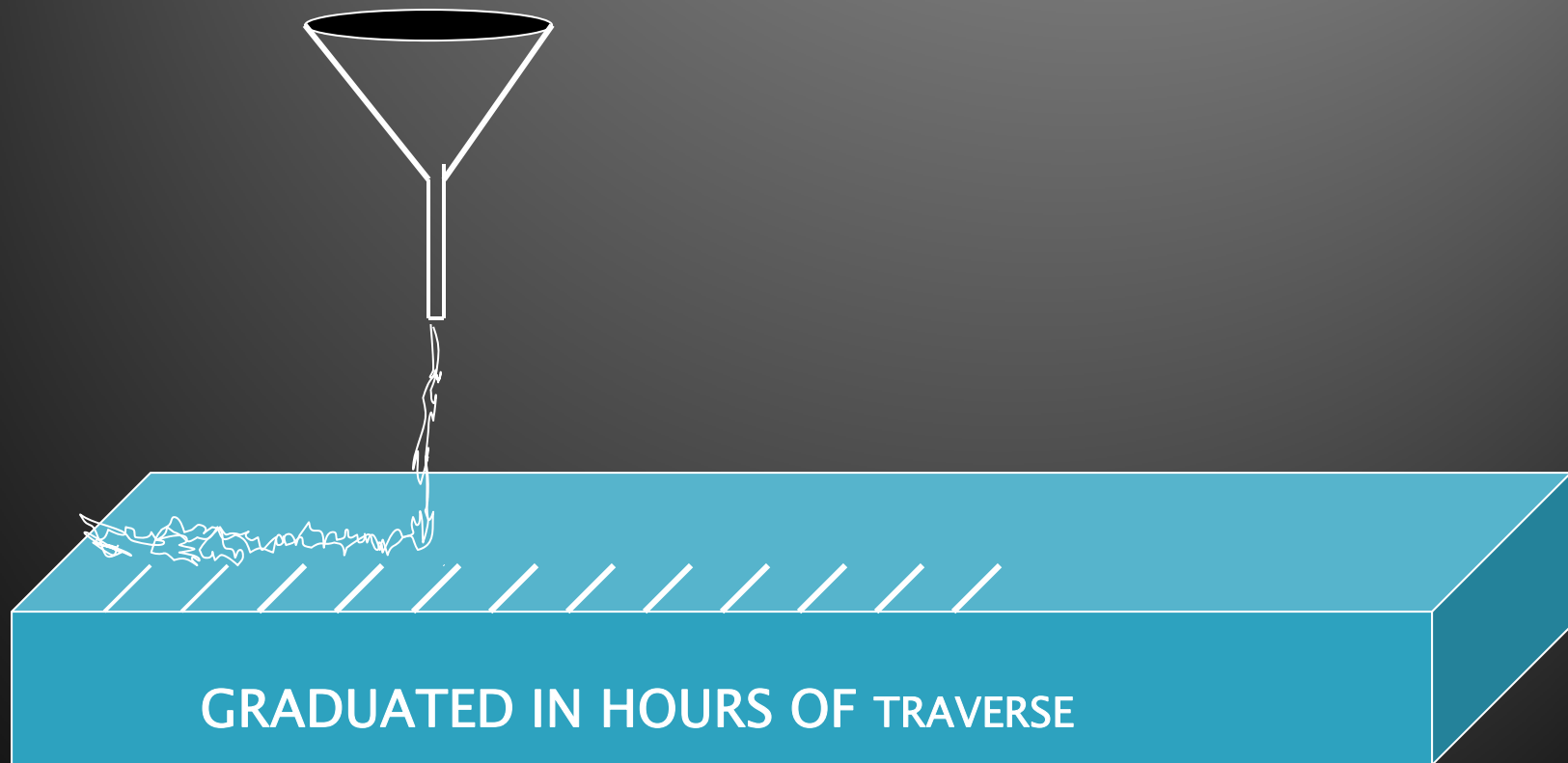
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FLEXIBILITY TEST CONICAL MANDREL



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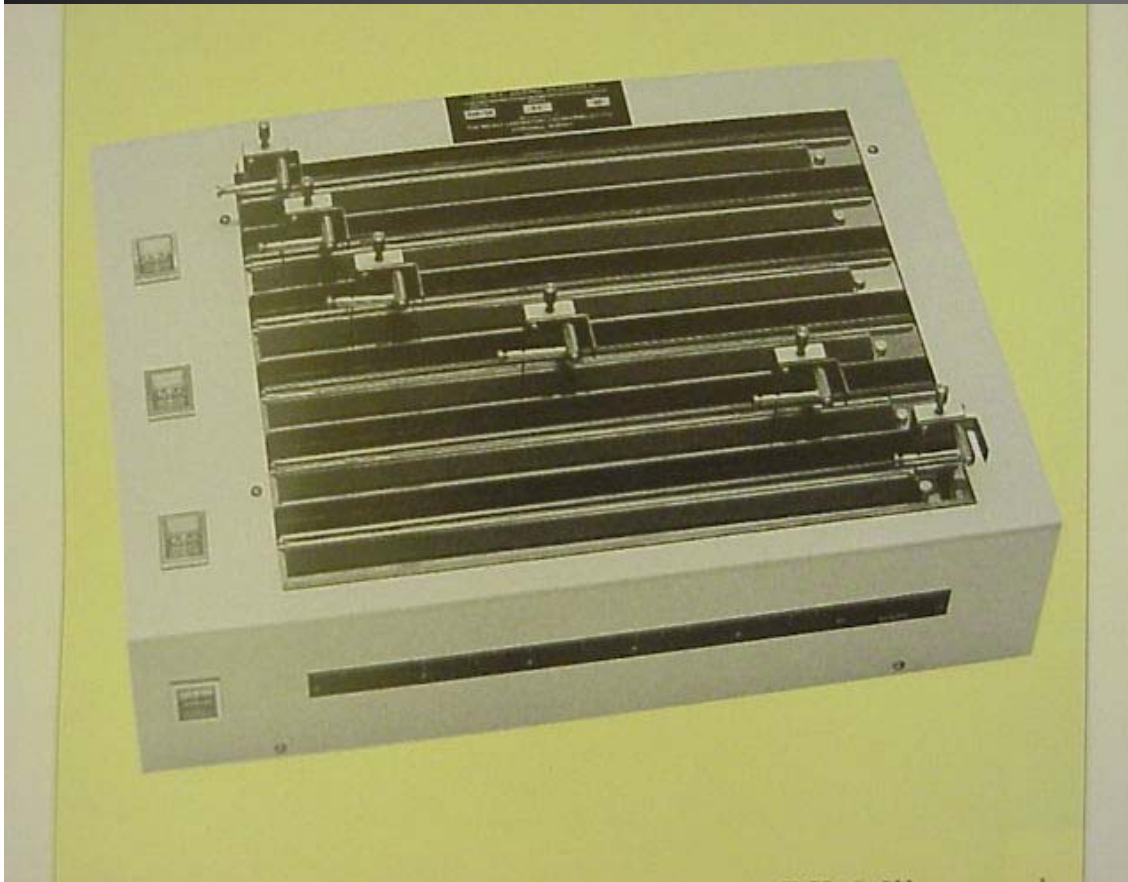
DRYING AND CURING TESTS:- BALLOTINI TEST



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DRYING AND CURING TESTS.

BK DRYING TIME RECORDERS



GLASS PLATES INSERTED
INTO FRONT SLOT.

STYLUS DRAWN ACROSS.

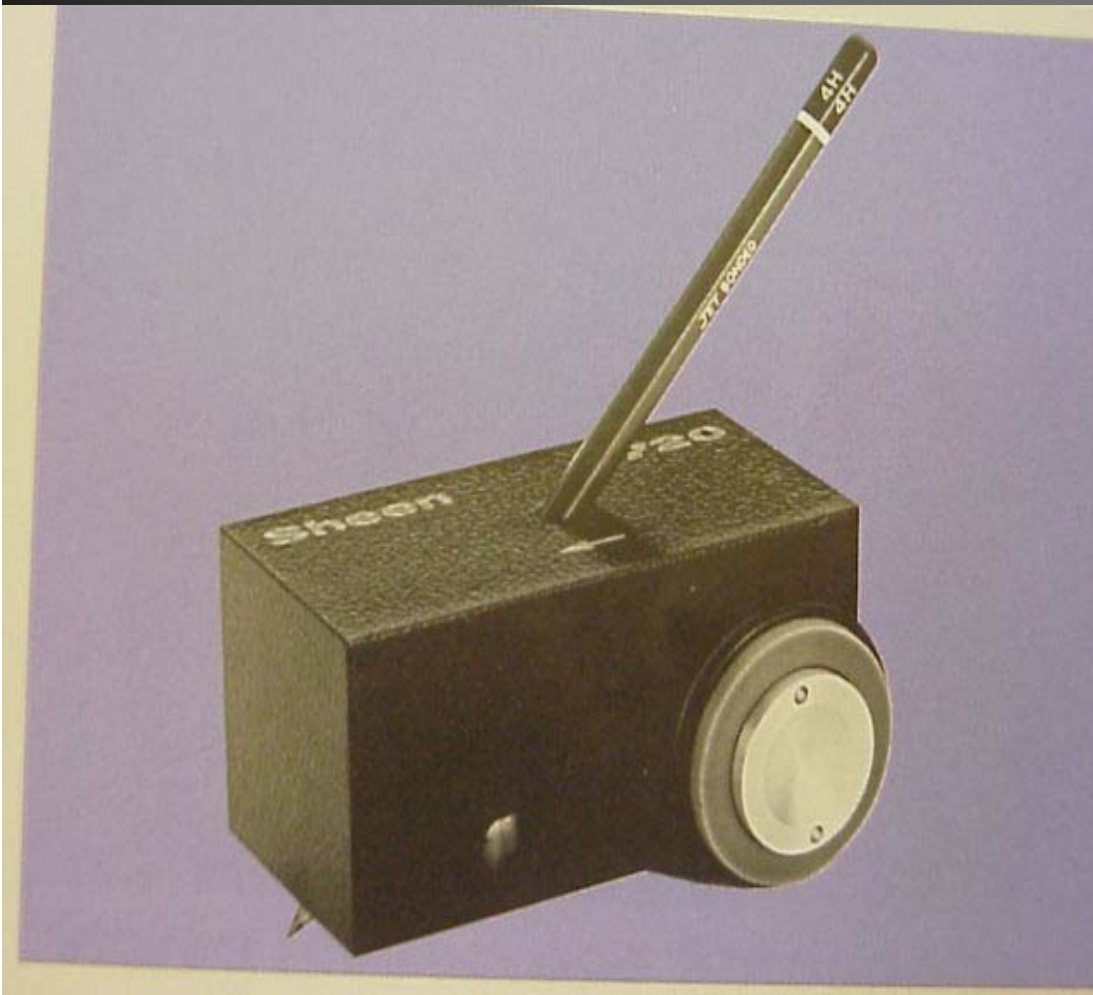
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MECHANICAL THUMB TEST, THROUGH DRYING



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WOLFF- WILBORN PENCIL SCRATCH TEST



USES THE PENCIL
HARDNESS RATING.

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OPACITY, THE PFUND CRYPTOMETER



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HIDING POWER CHARTS AND ADJUSTABLE APPLICATOR



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ADHESION TESTS CROSS CUT (CROSS HATCH) TEST SPECIAL
CUTTER TOOL



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ADHESION TESTS THE DOLLY TEST



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ADHESION TESTS THE HYDRAULIC ADHESION TESTER



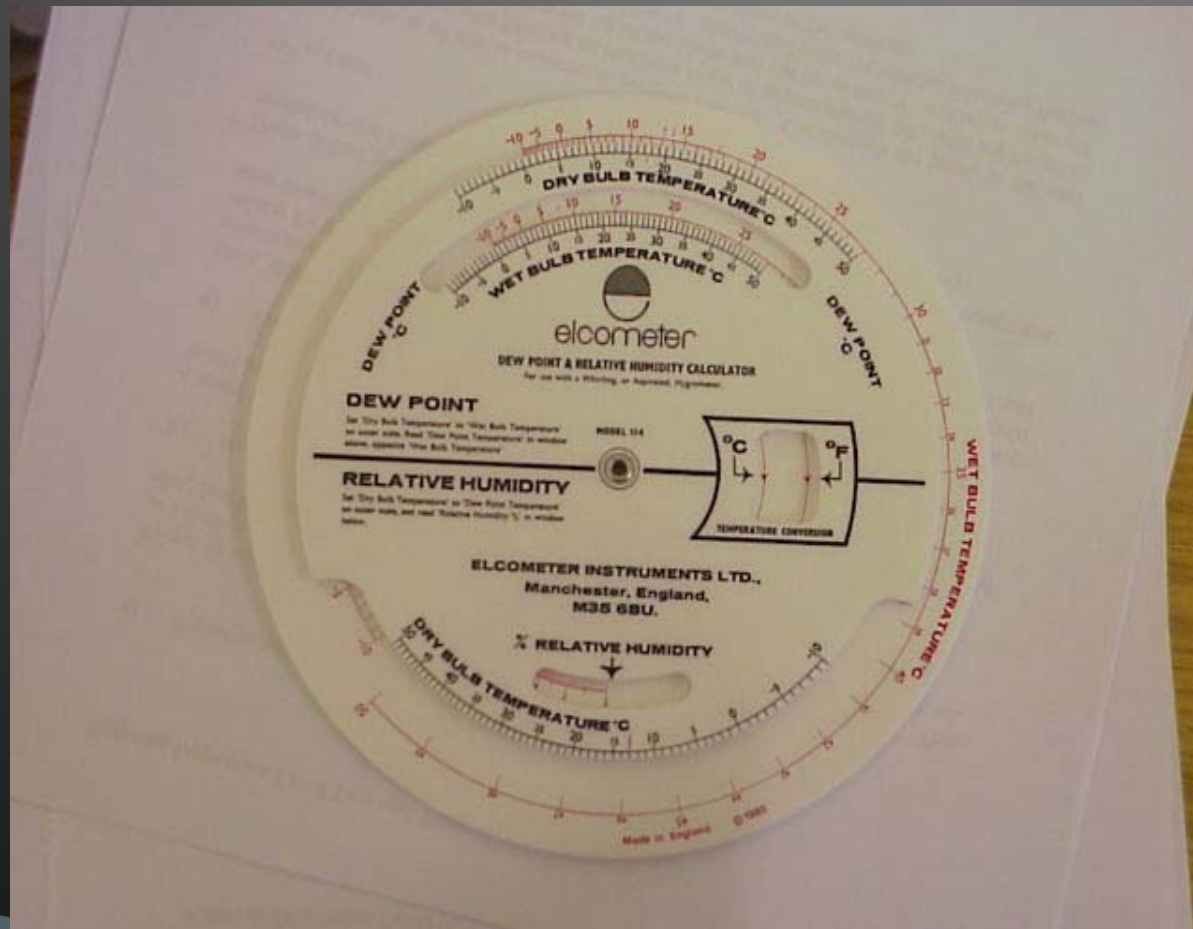
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WEATHER CONDITIONS WHIRLING HYGROMETER



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WEATHER CONDITIONS DEW POINT CALCULATOR



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WEATHER CONDITIONS

STEEL TEMPERATURES

MAGNETIC, CONTACT

THERMOCOUPLE



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HOLIDAY/PINHOLE DETECTION

TYPICAL H/V SET FOR
PINHOLE DETECTION.
OPERATES UP TO
5 Kv. TOO HIGH
FOR NORMAL PAINT
SYSTEMS

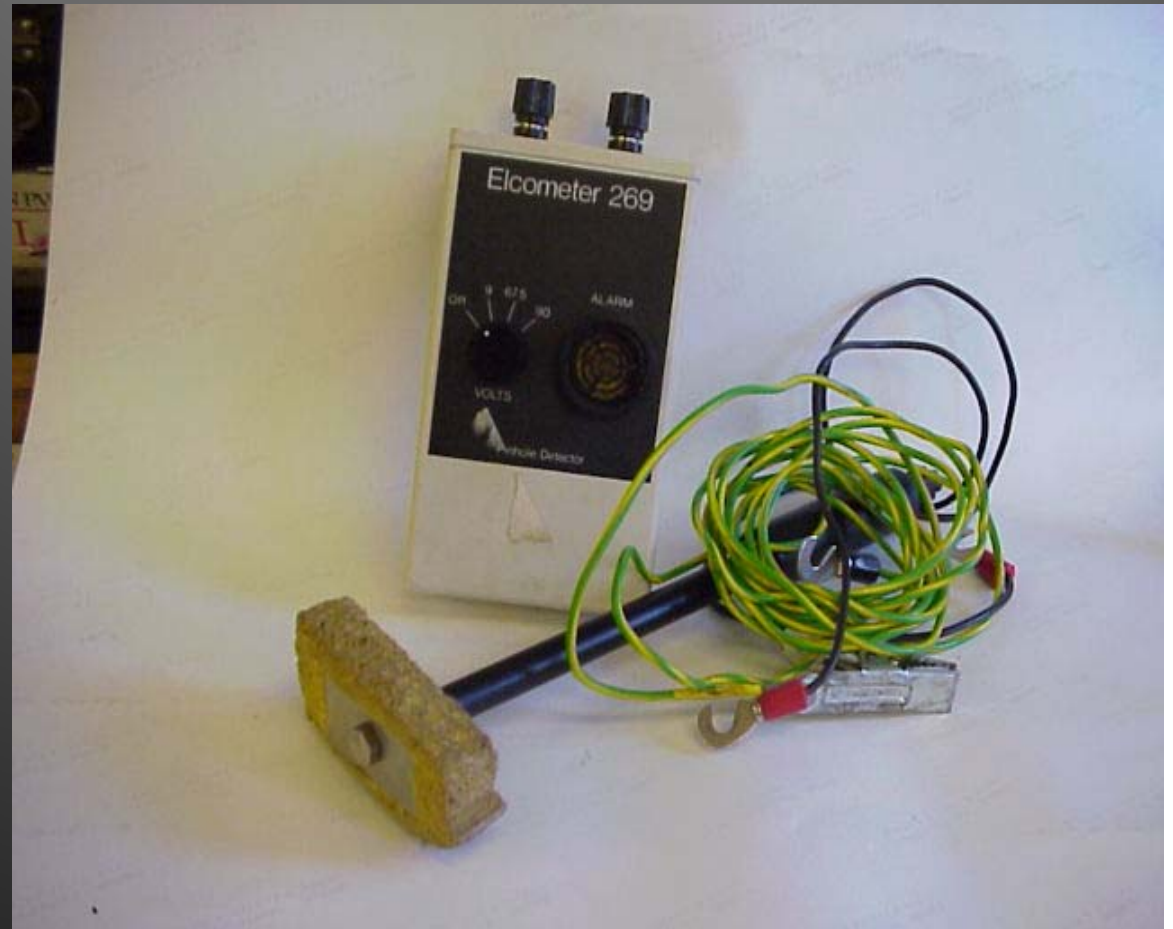


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PINHOLE/HOLIDAY DETECTION

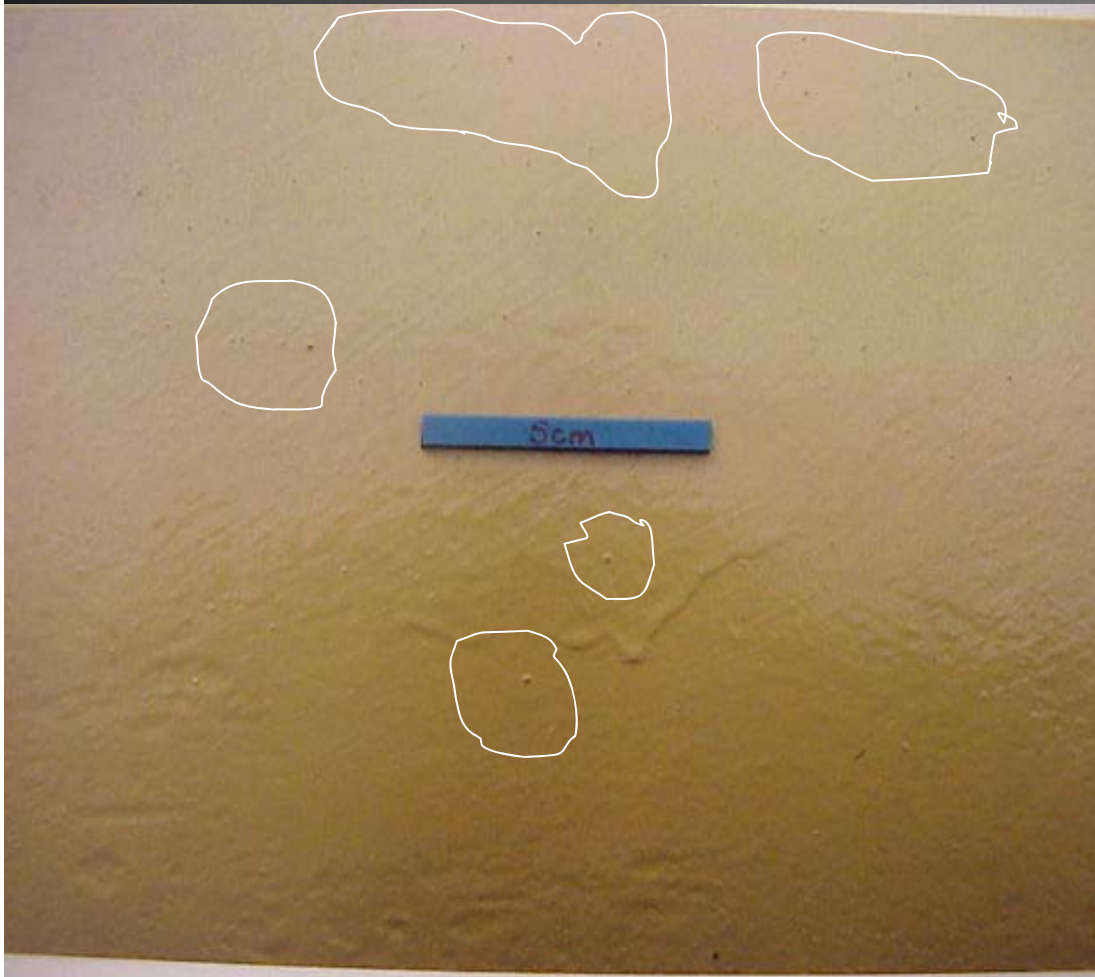
SPONGE DETECTOR

VOLTAGE RANGE 3 TO 90v. SOME HAVE ONLY 2 SETTINGS. INTERMEDIATE 67.5v. Sponge is wetted in water with a drop of detergent, excess squeezed out, then passed methodically over the substrate



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PAINT FAULTS, BITTINESS



INCLUSIONS, EITHER AIRBORN OR FROM THE PAINT ITSELF. COULD BE PARTIALLY CURED PAINT, OUT OF SHELF LIFE.

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COATING FAULTS



BLEEDING

THE SOLVENT FROM THE TOP COAT SOFTENS THE UNDER LYING MATERIAL AND ALLOWS IT TO PASS INTO AND THROUGH THE LAYER, CAUSING DISCOLOURATION. BROWN FOR BITUMEN, YELLOW FOR COAL TAR.

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COATING FAULTS BLISTERING

BLISTERS CAN BE FILLED WITH GAS, LIQUID OR CRYSTALS



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COATING FAULTS

CHALKING

DEGRADATION OF A BINDER
DUE TO DISRUPTIVE FACTORS
IN THE ENVIRONMENT



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COATING FAULTS

CRACKING



CAUSED BY INADEQUATE
SURFACE PREPARATION.

A DIFFERENCE IN SURFACE
ENERGY CAUSES LOCAL LACK
OF ADHESION.

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COATING FAULTS CRACKING



COATING AGE AND DIFFERENTIAL
EXPANSION



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COATING FAULTS

CRATERING



BOWL SHAPED DEPRESSIONS.
CAUSED BY ESCAPING SOLVENT
OR GASES. PAINT IS OF TOO
LOW A VISCOSITY TO FLOW AND
FILL THE DEPRESSIONS

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COATING FAULTS CURTAINS, SAGS, RUNS AND TEARS



CAUSED BY OVER APPLICATION.
REMOVE OFFENDING EXCESS
MATERIAL, LIGHTLY ABRADE,
RECOAT.



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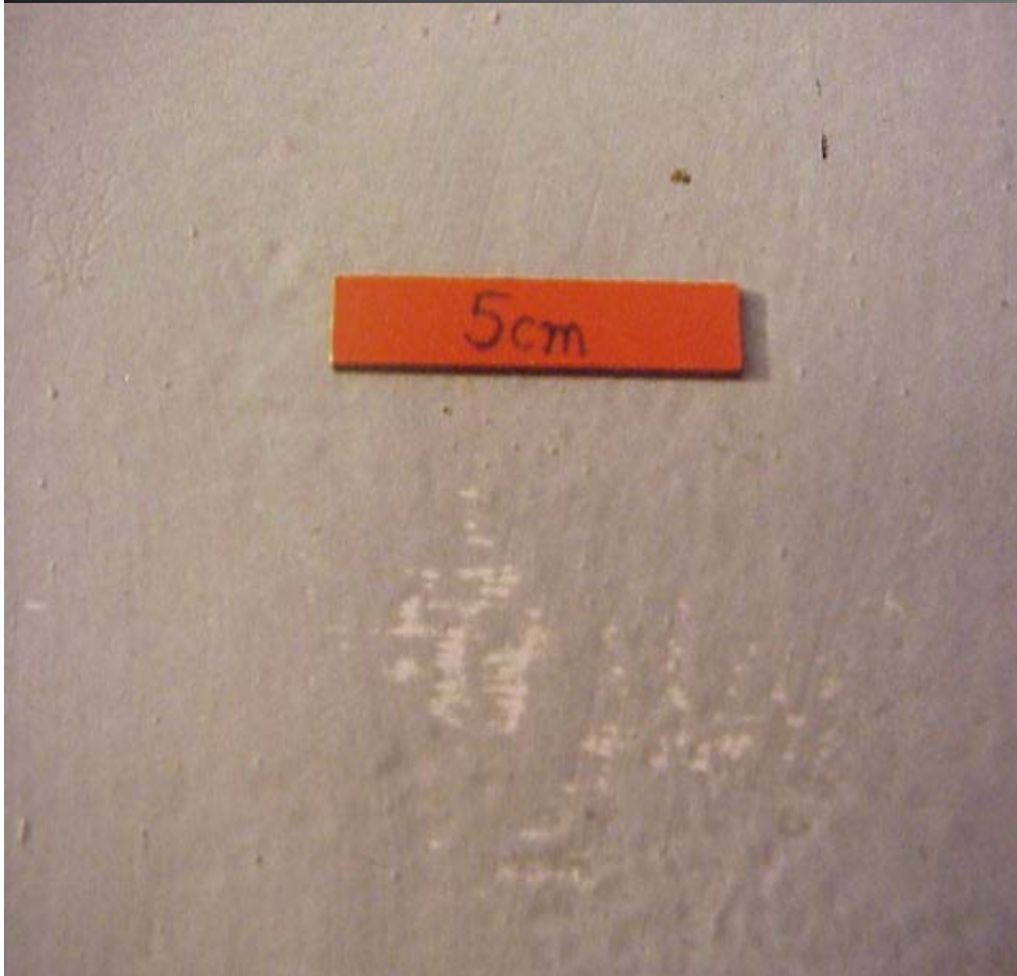
COATING FAULTS FLAKING



MATERIAL
PROGRESSIVELY GETS
BRITTLE WITH AGE,
CRACKS AND BEGINS TO
DETACH

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COATING FAULTS HOLIDAYS



DEFINED AS BEING :- A
VOID, A MISS, OR AN
UNCOATED AREA

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COATING FAULTS LIFTING

CAUSED BY SOLVENT STRENGTH AND ALSO LACK OF OBSERVANCE
OF STATED OVERCOATING TIME



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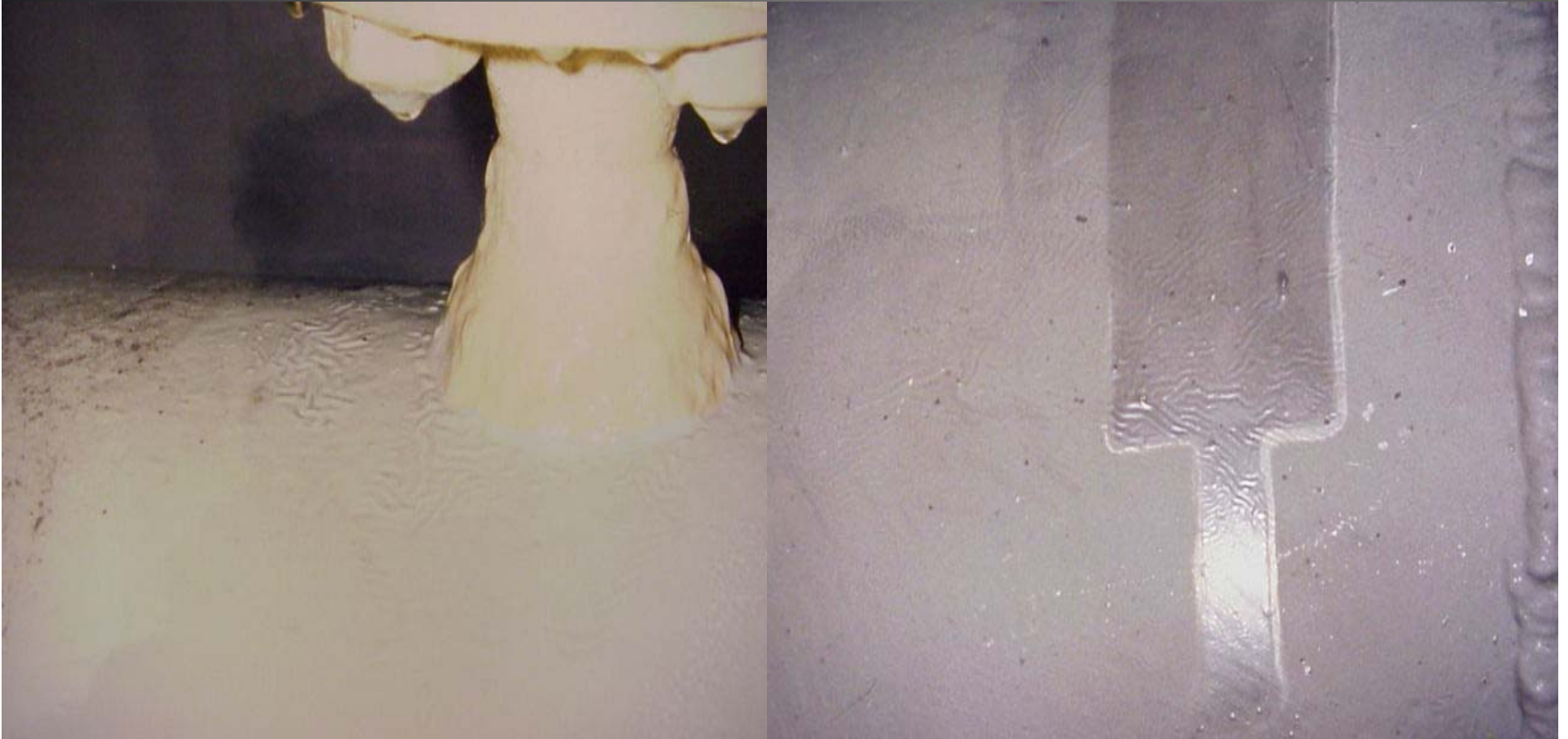
COATING FAULTS ROPINESS



BRUSHMARKS

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COATING FAULTS WRINKLING AND RIVELLING



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HEALTH AND SAFETY DRAGER TUBE AND BELLOWS

