



# STEELCOAT™ SYSTEMS

UNRIVALLED SURFACE TOLERANT COATINGS  
FOR COST EFFECTIVE LONG-TERM PROTECTION

Low cost / per area coated / per year of service

Environmentally Responsible  
VOC Compliant



## Maintenance or New Projects

- Steel Structures
- Rigs
- Chemical Plant
- Tanks
- Steelwork
- Exposed Pipelines
- Cables

The unique range of Denso Steelcoat™ Systems based on either glass flake reinforced liquid coatings or self-amalgamating tapes, mastics and void fillers are designed to tolerate less than perfectly prepared metal surfaces whilst still providing long-term corrosion prevention.

Proven world-wide, Denso Steelcoat Systems, provide the best, safest and most economical solutions for specific needs in highly corrosive environments.

Surface preparations involving hand power tool cleaning, water-jetting and applications to damp steel surfaces are categorised in the System Selection Guide.

## Denso Steelcoat Systems



### Glass Flake Reinforced Liquid Coatings

**System 1000** 1mm thick polyester glass flake coating (Denso PGF) applied in one main spraying operation by standard airless spray equipment.

**System 900** +150°C upper temperature limit with one single 4-500 micron hot sprayed glass reinforced epoxy resin coating (Denso Heatshield).

**System 700** 4-500 microns thick, minimum two coat brush or spray applied epoxy mastic (Denso S.T. Epoxy) suitable for power tool cleaned surfaces.



### Acrylic Bitumen Tape Coatings

**System 500** A fully coated acrylic backed pipeline tape and primer (Denso Acrylic Tape & Penetrating Primer). The tape is fast applied to long pipe lengths by wrapping machine. 30 year maintenance free service life.

**System 400** A semi-coated hand applied acrylic backed steelwork/pipework tape, primer and liquid applied topcoat (Denso Ultraseal, Penetrating Primer and Acrylic). A reinforcing scrim (D5 Scrim) strengthens and extends the system to a 30 year maintenance free service life.



### Petrolatum Tape Coatings

**System 300** A system (colour choice) for standard pipework and fittings (Denso ColourTape & Mastic). No primer or overpainting. 15 year service life.

**System 200** A system for hot pipework operating at temperatures up to +110°C (Denso Hotline Tape & Densoseal 16A).

**System 100** A system for cold/damp pipework operating at sub-zero temperatures (Denso Hi-Tack Tape & S105 Paste). Also suitable for badly pitted/rusted structural steelwork (Denso Hi-Tack Tape & Hi-Tack Primer).



### Petrolatum Void Filler

**System 50** A petrolatum based material (Denso Void Filler) which is pumped to completely fill voids between pre-stressing and post tensioning cables and their protective sleeves, to totally exclude air and water.



# System Selection Guide

Denso Steelcoat Systems are divided into 4 categories which involve different surface preparation i.e. categories A, B, C and D.

## Surface Preparation

- Category A** Abrasive water-jetting or ultra high pressure water-jetting (also suitable for dry abrasive blasting)  
Standard: Sa2½  
Surface profile: 50 - 75 microns  
Flash rusting : suitable over visibly patchy flash rust
- Category B** Fresh water wash down followed by thorough hand/power tool cleaning  
Standard: St2
- Category C** Fresh water wash down, heavy chipping hammers to remove heavy rust, thorough hand wire brushing to remove all loose scale and old coatings (conditions where St2 mechanical cleaning is not fully achievable due to condensation, deep pitting etc).
- Category D** No cleaning required - new cables

## Detailed Surface Preparation Data Must Be Referred To:

Surface Preparation	Protecting	Steelcoat Systems	Expected Service Life (years)	Average Thickness (microns)
<b>Category A</b> (water-jetting or abrasive blasting)	steel structures	1000	20-30	1500
	rigs, new jetty piles, decking, walkways, ramps, loading installations,	1000	15-25	1000
	very hot pipes	900	12-15	4-500
	plant, tanks, pipelines, cranes, bridges, steelwork	700	12-15	4-500
<b>Category B</b> (power tool)	process plant,	700	7-9	4-500
	pipe bridges, structural steel,	500	30	1600
	pipework, fittings,	400 / D5	30	1600
	pipelines, tie bars,	400	30	1400
	storage tank bases, metal roof purlins, hot pipework	300	15	1250
		200	15	2300 (55% overlap)
<b>Category C</b> (hand wire brushing)	cold/damp pipes, badly rusted/pitted pipes and	100 / S105	15	1400
	structural steelwork,	100 / HT Primer	15	1400
	fittings,	500 / 100 (combined)	30	3000
	pitted pipelines, old metal roof sheets	100 / 400 (combined)	30	2800
<b>Category D</b> (no cleaning)	pre-stressing and post tensioning bridge cables and anchorages	50	50 plus	sleeve/anchorage completely filled

**Note:**

**Preparation of galvanised steel and aluminium surfaces**

Degrease and roughen surface by mechanical abrasion or abrasive sweep-blasting. Apply two coats of Denso S.T. Epoxy in accordance with the application instructions.

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