

DENSO 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



80 YEARS OF CORROSION PREVENTION

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 protection.

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.

The Denso Steelcoat Systems Description:



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 & Denso Seal 16A).

System 100 a system for cold/damp pipework operating at sub-zero temperatures (Denso Hi-Tack Tape & Seashield Primer P). 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: Sa2
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)	1st Maintenance Coat (years)
Category A (water-jetting or abrasive blasting)	steel structures rigs, new jetty piles, decking, walkways, ramps, loading installations, very hot pipes plant, tanks, pipelines, cranes,bridges, steelwork	1000	20-30	1500	-
		1000	15-25	1000	-
		900	12-15	4-500	-
		700	12-15	4-500	-
Category B (power tool)	process plant, pipe bridges, structural steel, pipework, fittings, pipelines, tie bars, storage tank bases, metal roof purlins, hot pipework	700	7-9	4-500	-
		500	30	1600	-
		400 / D5	30	1600	-
		400	30	1400	20
		300	15	1250	-
		200	15	2300 (55% overlap)	-
Category C (hand wire brushing)	cold/damp pipes, badly rusted/pitted pipes and structural steelwork, fittings, pitted pipelines, old metal roof sheets	100 / Seashield Primer P	15	1400	-
		100 / HT Primer	15	1400	-
		500 / 100 (combined)	30	3000	-
		400 / 100 (combined)	30	2800	20
Category D (no cleaning)	pre-stressing and post tensioning bridge cables and anchorage	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.

DENSO STEELCOAT SYSTEMS

The single source solution

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