

**DENSO ST 100**  
(Surface Tolerant Epoxy)Potable Water Product  
Complies to: SABS 1211 AS/NZC 4020:1999**DESCRIPTION**

Denso ST 100 is a two component, solvent free, amine cured modified epoxy designed for potable water tanks and pipelines.

**PRINCIPAL CHARACTERISTICS**

- Tank coating for drinking water.
- Reduced fire hazard
- Can be supplied in light colours.
- Adhesion: Excellent to both dry blasted, wet blasted & manually prepared surfaces.
- Abrasion Resistance: Excellent  
Scratch test ISO 1518 1992 (E) >4kg
- Corrosion: Excellent long term corrosion prevention in extremely corrosive environments.
- Chemical Resistance: Resistant to dilute acids & alkalis, petroleum products & aliphatic solvents.
- Temperature Resistance: Wet - 52°C max  
Dry - 85°C max
- Repairability: Bonds well to abraded paint Surfaces

**SURFACE PREPARATION**

Pretreatment: Remove soluble salts, oil, grease & dirt.

New Steel: Grit blast to Sa2½ (ISO8501:1988) 50µ

Maintenance: Where grit blasting is not possible mechanically clean to St2

Concrete: Remove dirt & laitance

Apply a penetrating primer

**APPLICATION**

Field Joints : Apply by Denso applicator pad.

1 x 500-700µ @ 20°C

Airless Spray : 80:1 (Heat product to 30°C)

**HEALTH & SAFETY**

Please read instructions on container. Avoid Skin contact and do not inhale vapours.

SKIN: Wash well with soap & water

EYES: Flush with water & immediately seek medical attention. **Read Safety Data Sheet.**

**PACKAGING**

4L ( 3.15L Base – 0.85L Curing Agent)

20L (15.75L Base – 4.25L Curing Agent)

Also available in 600ml Squish Packs

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DENSO ST 100	SOLVENT FREE SURFACE TOLERANT EPOXY
Operating temp. Range	-40°C to +85°C (Dry) -40°C to +52°C (Wet)
Application Temperature	+15°C to +40°C
Colours	Cream, Grey, Red, Blue (High Gloss)
Solids (% Volume)	100%
Specific Gravity	1.5
Flash Point	>100°C
Over-coating times	15°C – 20hrs Minimum 48hrs Maximum 25°C – 6hrs Minimum 24hrs Maximum
Mixing Ratio	3.7 : 1 (By volume)
Pot Life	45 Minutes @ 25°C
Touch Dry	8 hours
Full Cure	7 days @ 25°C
Cleaning Solvent	Denso Epoxy Thinners
Storage Temperature	+ 5°C to 25°C
Shelf Life	12 months

APPLICATION BY AIRLESS SPRAY	
Nozzle Pressure	15 - 20 Mpa
Tip Size	0,8mm - 1.1 mm
Spray angle	40 - 80°
Filter	Remove all filters

	Theoretical Spread Rate	Film Thickness (microns)	
	M <sup>2</sup> / l	Wet	Dry
Range	2 to 5	200 - 500	200-500
Typical	3.3	300	300

TYPICAL LINING SYSTEM		
Denso ST 100	Stripe coat all welds, sharp edges etc.	250µ DFT
Denso ST 100	2 coats @ 250µ DFT/coat	Total 500µ DFT