

# 510S/510C URETHANE MAINTENANCE COATING

## DESCRIPTION

510 Moisture Cure Urethanes are extremely durable, single component maintenance coating systems. They have unsurpassed adhesion to a variety of substrates.

## BASIC USES

510C is an excellent single component colour coat for the protection of wood, concrete or steel in harsh industrial environments. For indoor use only. 510S is an extremely tough clear concrete sealer. For indoor use only.

## MAJOR ADVANTAGES

- Hard, abrasive resistant and flexible
- Outstanding adhesion: concrete, galvanized steel, wood, urethane foam, tightly adhered old paint etc.
- Will not soften solvent sensitive coatings, alkyds, vinyls, acrylics
- Good resistance to acids, alkalis and fresh and salt water.
- Can be applied at sub-zero temperatures -10°C (14°F)
- Approved by Canadian Food Inspection Agency (CFIA) for incidental food contact.

## TECHNICAL AND PRODUCT DATA

Flash Point::	120°C(250°F)	No. of Components:	One
Solid by Volume:	510C 66%	Packaging:	4L, 20L pails & 200L drums (1 gal, 5gal & 55 gal )
	510S 33%	Coverage:	510C 4.6m <sup>2</sup> (50sf)/L/coat (200 sf/gal)
Cure Time:	Touch 0.5 hrs.		510S 9.2m <sup>2</sup> (100sf)/L/coat (400 sf/gal)
	Recoat 1-2 hrs.	Primer:	510C Concrete: 510S
	Mar-free 4-5 hrs.		Steel: 510A
Sward Hardness:	34		510S None
Taber Abrasion:		Clean-up:	Use 580 JETTHANE solvent
	CS-17 18mg loss	Colours:	510S - Light Amber
Reverse Impact:	>160inlb		510C -Light Amber and others
Direct Impact:	>160inlb	Finish:	High gloss
Pot Life:	4 hours	Shelf-Life:	6 months at 5°-24°C, (41°-75°F) inside storage, out of sun and direct heat
Net Weight:	510C 1.2 kg/L (10.4 lbs/gal)		
	510S 1.1 kg/L (9.2 lbs/gal)		
Application Temp.:	-10°C(14°F)		

## **APPLICATION INSTRUCTIONS**

Correct surface preparation is of the utmost importance. Surface must be sound, clean, dry and free of oil, grease or any other contaminants. Obvious damaged areas must be repaired before the application of the coatings. New concrete must be 28 days old before coating and all traces of curing compound must be removed. Smooth trowelled or surface hardened concrete floors require mechanical or chemical etching to ensure adhesion. For applications over steel sandblasting to a minimum SSPC-SP 6 Commercial Blast is recommended. For immersion service an SSPC-SP 10 White Metal Blast is essential. When overcoating the 510 system, apply the second coat as soon as the first coat is touch dry. Do not allow the first coat to fully harden as intercoat adhesion may be affected. If more than 24 hours elapses between coats, sand well before applying second coat. The 510 coatings can be applied by brush, roller or spray. For conventional spray applications use De Vilbiss MBC or JGA spray guns with an "E" Fluid Tip. The recommended atomizing pressure is 40 to 60 psi with a pot pressure of 15 to 30 psi depending on site conditions. Airless spray applications require a minimum tip pressure of 2500 psi and a tip range of 15 to 20 thou. 510C may be thinned for spraying using IMCO 580 solvent only at a maximum rate of 10%.

## **CONCRETE SEALING**

510S is applied directly to clean substrate by brush, roller or spray at the rate of approximately 10m<sup>2</sup>/litre (400 sf/gal). DO NOT LEAVE PUDDLES. On porous substrates a second coat applied at 10m<sup>2</sup>/litre (400 sf/gal) may be required. If a non-slip surface is required, silica sand may be broadcast into a wet coat of 510C, when dry the excess sand is swept or vacuumed and a second 510C coat is applied to seal in the non-slip aggregate. For a coloured concrete coating 510C can be applied over the 510S seal coat. For best results two colour coats of 510C are recommended over the 510S prime coat.

## **STEEL COATING**

Apply the 510C in multiple coats over sandblasted and primed steel. Prime using IMCO 510A Aluminum Primer. IMCO 510C can also be used as the chemical resistant urethane finish coat over a variety of priming systems, including zinc rich primers.

## **CLEAN-UP**

With IMCO 580 Solvent before coatings dry.

## **STORAGE**

Keep in tightly closed containers to prevent contamination with moisture. Store in a cool, dry place, preferably under 27°C (81°F) to insure stability of at least 6 months in original unopened containers.

## **SPECIAL HANDLING**

Use normal precautions such as gloves, coveralls, eye protection and face mask with, cartridges approved for inorganic vapours. When spraying, free isocyanates may be present; use air-fed, full face mask. May cause sensitization in susceptible individuals. Protect skin with barrier creams. Wash skin contact areas thoroughly with lukewarm water. Eye contact; flush with copious amounts of water and obtain medical attention immediately. Maintain adequate ventilation in enclosed areas.

## **SAFETY**

Please refer to the Material Safety Data Sheet.

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## **WARRANTY DISCLAIMER:**

The information herein is to assist customers in determining whether our products are suitable for their application. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to the contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute a warranty expressed or implied, including any warranty of merchantability or fitness, nor is protection from any loss or patent to be inferred. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.