

ALIPHATIC URETHANE

DESCRIPTION

530 Moisture Cure Urethane is an extremely durable single component maintenance coating system having unsurpassed weatherability and colour stability.

BASIC USES

530S is used as a chemical and abrasive resistant sealer for concrete floors, walls, parapets etc. The exceptional Ultra-violet stability of the 530S system permits interior and exterior use.

530C is a single-component high gloss colour or clear coat used as a chemical and abrasion resistant top-coat over a variety of primers for steel and concrete in industrial and marine environments. It is particularly effective as the chemical and weather resistant coat over the IMCO 510A Aluminum Primer.

Used to protect structural steel, tanks, piping, steel roofs, concrete floors etc., and as an extremely durable clear or coloured anti graffiti protective coating.

MAJOR ADVANTAGES

- Ultra-violet stability
- Excellent chemical resistance
- High degree of flexibility and mar resistance
- Excellent abrasion resistance
- Exceptional gloss retention and chalk resistance
- Approved by Canadian Food Inspection Agency (CFIA) for incidental food contact

TECHNICAL AND PRODUCT DATA

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| Flash point | 26°C(80°F) | Mandrel Flexibility | 1/8" |
| Solid by volume | | Impact Resistance | Direct 160in lb |
| | 530S 20% | Finish | High gloss |
| | 530C 40% | No. of Components | One |
| Tensile strength | 4500 psi (31 MPa) | Packaging | 4L/20L pail, 200L drum (1 gal/5 gal pail, 55 gal drum) |
| Cure time | | Coverage | 530S 9.2m ² (100sf)/L/coat (400sf/g) |
| | Touch 2 to 3 hrs | | 530C 4.6m ² (50sf)/L/coat (200sf/g) |
| | Recoat 3 to 6 hrs | Primer | 530S None |
| | Mar free 12 to 24 hrs | | 530C Concrete, use 530S |
| Sward Hardness | | | 530C Steel, use 510A |
| | 1 day 34 | Clean-up | Use 585 Jetthane Solvent |
| | 1 wk 36 | Colours | 530S Clear |
| Taber abrasion | | | 530C Clear and range of colours |
| | CS-17 20mg loss | Shelf Life | 6 months at 5-24°C (41-75°F) |
| Elongation | 100% | | Inside storage away from direct heat. |

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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 530 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 530 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. 530C may be thinned for spraying using IMCO 585 solvent only at a maximum rate of 10%.

CONCRETE SEALING

530S is applied directly to clean substrate by brush, roller or spray at the rate of approximately 10m²/litre (400sf/g). DO NOT LEAVE PUDDLES. On porous substrates a second coat applied at 10m²/litre (400sf/g) may be required. If a non-slip surface is required, silica sand may be broadcast into a wet coat of 530C. When dry, the excess sand is swept or vacuumed and a second 530C coat is applied to seal in the non-slip aggregate. For a coloured concrete coating 530C can be applied over the 530S seal coat. For best results two colour coats of 530C are recommended over the 530S prime coat.

STEEL COATING

Apply the 530C in multiple coats over sandblasted and primed steel. Prime using IMCO 510A Aluminum Primer. IMCO 530C can also be used as the chemical resistant urethane finish coat over a variety of priming systems, including zinc rich primers.

SPECIAL HANDLING

Clean-up with IMCO 585 Solvent before coatings dry. 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.

SAFETY PRECAUTIONS

Please see Material Safety Data Sheet. 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.

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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.