

TECHNICAL DATA SHEET

USE

A sealer for concrete floors to assist dustproofing and provide a more easily cleaned surface with resistance to penetration of oils and other liquids. Ideal for warehouses, car parks, light industrial buildings, etc.

ADVANTAGES

Simple brush, roller or spray application
Efficient curing media for where compatibility is required between an efficient curing compound and a final seal coat
Good resistance to abrasion
Totally seals the concrete surface preventing dusting
Single component - no mixing
Easily applied by maintenance personnel
UV Resistant - non yellowing

DESCRIPTION

UCS-502 is a one component, penetrating, clear synthetic acrylic coating. It has excellent adhesion to cementitious surfaces and when cured forms a semi-gloss, flexible film. It penetrates the surface to bind together the particles to produce a harder wearing surface.

When used as a floor coating, a minimum of two coats are recommended. One coat may be suitable when applied over approved and tested curing compound such as Concure CR.

PERFORMANCE

- Resists stains from oil and food substances
- For pedestrian, vehicular and high traffic areas
- Durable protection
- High coverage rate
- "Breathable" protection to prevent trapping moisture
- Typically no impact on substrate color
- Non-Flammable
- Compatible over silicate densifiers, dyes and integral colorants
- Long "window of opportunity" for cleaning spills
- Can be used on interior and exterior surfaces

PREPARATION

Protect people, property, glass, plants, animals, vehicles and any other surfaces other than receiving protectant, from splash, overspray, residue and wind drift.

Ensure any new concrete is cured fully prior to application. Surfaces should be thoroughly cleaned of any curing agents or other contaminants for optimum penetration. If unable to perform caulking, patching and joint sealant work prior to product application, joint preparation may be required to ensure proper adhesion. Always test areas of sealant work to check for staining or discoloration of materials

TEMPERATURE GUIDELINES

Use product with air and surface temperatures of 40-105°F (4-40°C); do not apply product outside of these ranges. Avoid application in high winds

APPLICATION INSTRUCTION

Surface preparation

It is essential that UCS-502, as a sealer, is applied to sound, clean, dry substrates in order to achieve maximum adhesion between the floor coating and substrate. Because UCS-502 is a relatively thin coating, the substrate must be fine textured. Any surface irregularities may show through causing excessive wear on high spots and changing the perceived colour of the coating.

New concrete floors

Dry removal of laitance by light diamond grinding is preferable but, where this is not feasible, treat with 3 to 5% Hydrochloric acid wash, followed by a neutralising solution then thorough rinsing with high pressure water (2000psi) and complete drying. Dust and other debris should then be removed by vacuum brush.

Old concrete floors

A sound, clean substrate is essential to achieve maximum adhesion when using UCS-502 as a sealer. Light diamond grinding should be carried out as for new concrete floors. Oil and grease penetration should be removed by hot compressed air treatment or with a chemical degreaser. A test area should be done to check sufficient preparation

Note: UCS-502 will not fix bad or dusty concrete.

COATING

Stir material before use. Apply not less than two (2) coats of UCS-502 by short nap roller, brush or spray at a coverage rate of 64 to 86ft² /litre per coat. Ultraepoxy recommends the first coat be roller or brush applied or at least "back-rolled" to assist with the penetration into the concrete substrate. The coverage obtained will vary depending on the nature of the surface to be coated. Three (3) coats may be required on porous or coarse surfaces. Allow 2 - 4 hours between coats

CLEANING

All the instruments should be cleaned immediately with clean water after the application is finished. Cured materials can only be removed mechanically.

MAINTENANCE

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of UCS-502 may be carried out using a rotary scrubbing machine with a water miscible cleaning agent or by hot water washing at temperatures up to 122°F

LIMITATIONS

- Do not apply to areas subject to constant or excessive moisture, or hydrostatic pressure
- Not intended to stop water penetration through open joints, cracks or similar defects
 - Not recommended for non-masonry surfaces or materials

UCS-502 is designed as a penetrating sealer therefore dry film thickness is not necessarily a true guide to what is achieved on-site.

The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced

WARRANTY

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STORAGE AND HANDLING

Store product in a cool, dry area. Keep containers upright and tightly closed when not in use. Do not allow product to freeze, and discard if product has been frozen. Product has approximate shelf life of 1-year in factory-sealed container stored properly. Maintain temperatures of 45-105°F (7-40°C). Dispose of unused product in accordance with all local, state and federal regulations.

SDS

PLEASE SEE SAFETY DATA SHEET (SDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED. KEEP OUT OF THE REACH OF CHILDREN

TECHNICAL DATA

Drying time	1-2 hours
Re-Coat Time	2-3 hours
Foot traffic	12-24hours
Wheel Traffic	48 hours
Wet Appearance	Milky White
Dry Appearance	Clear
Coverage	500-1000 square feet per US gallon
Concrete Adhesion	Good