



Technical Data Sheet

ASODUR-3333PW

2-Component, non-toxic, moisture tolerant, solvent-free, chemical resistant epoxy protective coating suitable for contact with potable water

Product Description:

ASODUR-3333PW is 2-component, solvent-free (100 % solids), non-toxic, epoxy resin-based, high-build, high-performance, chemical-resistant protective coating suitable for contact with drinking water and foodstuffs. After application and curing ASODUR-3333PW provides a durable protective, sealing & decorative, easy to-clean film with excellent abrasion & chemical resistant properties. ASODUR-3333PW is based on selected epoxy resins & special hardener that resist amine blush. ASODUR-3333PW is available in standard white & blue colours. Any RAL shade upon request.

Primary Uses:

ASODUR-3333PW is formulated to provide a continuous protective coating with abrasion & chemical resistant properties and is formulated for lining and waterproofing of surfaces that will contain potable water or foodstuffs. ASODUR-3333PW is suitable for areas where a thick film is required such as:

- Water tanks & reservoirs and silos.
- Food processing areas.
- Dairies & kitchens.
- Soft-drink bottling.
- Storage tanks.
- Wet processing areas and laboratories.
- Clean rooms.

Advantages:

- Easily applied by brush or roller or spray.
- Solvent-free (100 % Solids), low VOC; odourless.
- Non-toxic and suitable for contact with drinking water or foodstuffs.
- Highly durable and corrosion resistant.
- Moisture insensitive; can be applied on damp surfaces.
- Excellent abrasion and impact resistance.
- Forms a hygienic, impervious and seamless coating.
- Easy to clean surface.
- Excellent adhesion to sound concrete & masonry substrates.
- High chemical resistance to most common chemical reagents.

- Can be reinforced with glass fiber to increase mechanical properties.
- Excellent resistance to water, waste water and salt water.

Standards:

ASODUR-3333PW is formulated to comply with the requirements of the following standards:

- BS 6920: Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water - Part 1: Specification
- ANSI/ AWWA C-210: AWWA Standard for Liquid - Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines
- Egyptian Standard: ES 6447: 2007: "Interior epoxy coating for pipelines and tanks made of steel or concrete for potable water".

Typical Properties:

Appearance:	Pigmented free flowing liquid
Specific gravity:	1.4 – 1.5 at 20 °C
Solids content:	100 % by weight
Mix ratio	Component A: 100 Component B: 19
Application temperature:	0 – 40 °C
Time between coats:	12 – 24 hours at 25 °C
Pot-life:	70 mins at 25 °C
Full cure:	7 days at 25 °C
Abrasion resistance:	70 mg (Taber Abrasive, 1000 grams / 1000 revolution)
Bond Strength	> 4.0 N/mm ²
Chemical Resistance:	ASODUR-3333PW is resisting to the following reagents:

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Acids

Hydrochloric 50 %	Excellent
Sulfuric 50 %	Excellent
Nitric 25 %	Good
Acetic 10 %	Excellent
Lactic 10 %	Excellent
Citric 10 %	Excellent

Alkalis

Sodium hydroxide 50 %	Excellent
Sodium Carbonate 50 %	Excellent
Ammonia 10 %	Excellent
Potassium Hydroxide 50 %	Excellent
Sodium Hypochlorite 15 %	Excellent

Solvents & Oils

Ethanol	Excellent
Ethyl Glycol	Excellent
White spirit	Excellent
Petrol & Diesel Oil	Excellent
Coconut oil	Excellent
Cotton Seed Oil	Excellent
Soya Bean Oil	Excellent
Silicates	Excellent
Soya Bean Oil	Excellent
Vegetable Oil	Excellent
Detergent	Excellent
Fat	Excellent
Milk	Excellent
Pine Oil	Excellent
Linseed Oil	Excellent
Water	Excellent

(*) Discolouration may occur when ASODUR-3333PW is exposed to the above mentioned reagents. However other physical and chemical resistant properties will remain unchanged.

It is important to implement regular & proper house-keeping. Immediate cleaning of spillages prolongs the service life of any floor.

For other/specific chemical reagents, please ask for technical support.

Consumption:

The following table may be used as a guideline based on a theoretically smooth, flat, well primed surface:

Wet film thickness (µm)	Dry film thickness (µm)	Consumption kg/m ²
175	175	0.25
200	200	0.3
300	300	0.45

Actual consumption is influenced by surface condition, ambient temperature and application method. Always allow for realistic wastage. Trial areas to determine exact consumption at a specified thickness is always recommended.

Application Guide

Surface Preparation:

All surfaces must be sound, clean and free from dust, grease & oils, curing agents, mould release agents and other contaminations adversely affecting bond with the substrate.

Steel or metal surfaces should be free from rust or scale in accordance with SA 2½ (white metal finish).

All adhesion preventing contaminants should be fully removed prior to application of the primer (Please refer to "Priming").

Priming:

Prior to application of ASODUR-3333PW, use as appropriate INDUFLOOR-IB1280 or INDUFLOOR-IB1285 (refer to relevant data sheet).

Mixing:

Stir each component of ASODUR-3333PW well before mixing. Pour the entire contents of Component B into

ASODUR-3333PW

the Component A container and mix well for 2 to 5 minutes until a uniform consistent colour is achieved.

Application:

Apply the mixed materials of ASODUR-3333PW onto the well prepared substrate using a suitable brush or roller. Airless spray method may be used for large areas. Apply the second coat at least 12 hours at 25 °C after application of the first coat.

It is recommended to use two contrasting colours for two coat applications.

Packaging:

ASODUR-3333PW is supplied in 5 and 10 kg kits.

Storage & Shelf-life:

Components A & B have a shelf life of 24 months, when original, unopened containers are stored in a dry, well ventilated warehouse away from moisture, direct sunlight, extreme temperatures (keep above 6 °C and below 35 °C) on pallets, elevated from the floor.

Cleaning:

Clean tools, equipment after work immediately with INDU-B Cleaner.

Health and Safety:

- ASODUR-3333PW is non-toxic, non-corrosive & non-hazardous during handling, storage, use and after curing.
- Do not dispose of components A & B or any unhardened material into water sources or onto soil. Expired or out of pot-life material should be disposed of in accordance with local environmental regulations.
- Splashes on skin can be washed with soap and clean water.
- For more details about safety requirements, please refer to valid MSDS!