

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 colors. 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.
- Highly chemical resistance to most common chemical reagents.
- Can be reinforced with glass fibre 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".

Technical Properties:

| | |
|-------------------------|---|
| Appearance | : Pigmented free |
| Specific gravity | : flowing liquid |
| Solids content | : 1.4-1.5 at 20°C |
| Mix ratio | : 100% by weight |
| 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 | : 91.6 mg (Taber Abrasive, 1000 grams / 1000 revolution) |
| Bond Strength | : > 4.0 N/mm ² |
| Chemical Resistance | : ASODUR-3333PW is resisting to the following reagents: |

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 Hydroxide 50% | 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 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 |

(*) Discoloration 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 recommend.

Application Guide:**Surface Preparation:**

All surface 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 2 & ^{1/2} (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-IB 1280 or INDUFLOOR-IB 1285 (refer to relevant data sheet).

Mixing:

Stir each component of ASODUR-3333PW well before mixing. Pour the entire contents of Component B into the Component A container and mix well for 2 to 5 minutes until a uniform consistent color 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 colors 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-IB 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.

