

DESCRIPTION

PUR-DECOFLOW is a self-leveling underlayment that provides a flat, smooth, durable surface with minimum effort, installation time and cost. It is a single component, high strength, non-shrink, regulated setting underlayment using a polymer modified binder system to level and smooth floors. PUR-DECOFLOW can be poured or pumped (no trowel required) in one single step to thicknesses from 3mm (1/8") to 100mm (4")* (Refer to "Product Application" section). PUR-DECOFLOW will accept foot traffic within 3 to 4 hours and floor coverings 16 hours after application.

Specially designed for interior use in leveling uneven rough damaged, unfinished, frozen or rained on concrete slabs. Provides a smooth and even finish to existing wooden, vinyl tiles, ceramic or terrazzo floors.

TYPICAL USES

- Floors covered by carpeting, hardwood, tiles, VFT or polymer coatings
- Showroom floors
- Office and condo building floors
- Shopping center floors
- School and gymnasium floors
- Hospitals and correctional institutions
- Heated flooring

ADVANTAGES

- Economical and easy to use
- Superior bond
- Self-leveling, no trowel work required
- Installable from 3mm (1/8") to a 100mm (4") thickness* (Refer to "Product Application" section)
- Non-shrink and non-dusting
- Ideal for pouring and pumping
- Maintains workability for 25 to 35 minutes at 21°C (70°F)
- No sanding or grinding required
- Adhesive compatible
- Not a gypsum based product
- Rapid early strength gain

TECHNICAL DATA

PACKAGING	22.7KG (50 LBS) BAG		
COVERAGE PER 22.7KG (50 LBS) BAG	3mm	(1/8")	4.1m ² (44ft ²)
	6mm	(1/4")	2.0m ² (22ft ²)
	12mm	(1/2")	1.0m ² (11ft ²)
STORAGE	STORE IN A DRY AND TEMPERED AREA		
SHELF LIFE	6 MONTHS IN UNOPENED BAG		

MATERIAL PHYSICAL PROPERTIES @ 21°C (70°F)

COMPRESSIVE STRENGTH ASTM C109-93 2" (50MM) CUBES	4 HOURS	7.0 MPA	(1015 PSI)
	16 HOURS	14.0 MPA	(2030 PSI)
	1 DAY	21.0 MPA	(3045 PSI)
	7 DAYS	25.0 MPA	(3625 PSI)
	28 DAYS	34.5 MPA	(5000 PSI)
FLEXURAL STRENGTH ASTM C348	7 DAYS	5.4 MPA	(783 PSI)
	28 DAYS	7.2 MPA	(1044 PSI)
TENSILE STRENGTH ASTM C190	28 DAYS	3.6 MPA	(522 PSI)
HARDENING	WORKING TIME	25 TO 35 MINUTES	
	INITIAL SET TIME ASTM C191	60 MINUTES	
	FINAL SET TIME ASTM C191	70 MINUTES	
	CURING	SELF-CURING	
	FOOT TRAFFIC	3 TO 4 HOURS	
FLOOR COVERING	16 HOURS		

SURFACE PREPARATION

CONCRETE

Surface must be solid, completely clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminant that will act as a bondbreaker. Weak concrete surfaces must be cleaned down to sound concrete by mechanical means like Blastrac® or light grinding. Acid etching or chemical cleaning is not acceptable. Joints in the substrate must be reflected through the applied underlayment.

WOOD

Wooden sub floors must be clean, free of varnish, shellac or any contaminant that hinders bond. If needed, sand down to bare clean wood. Do not use chemical cleaners. Substrate must be solid and secure to provide a rigid base. The subfloor must be free of deflection and should be less than L/360 taking into account for live and dead loads. Any moving boards should be renailed and open joints filled. The wooden substrate must be solid hardwood flooring minimum of 20mm (3/4") tongue and groove, APA rated Type 1, Exterior Exposure plywood. Prime the substrate as outlined in "Substrate Priming". Then anchor a thin galvanized expanded diamond 20mm (3/4") metal lath mesh (plaster lath) to the subfloor, securing every 150mm (6") to prevent movement, overlapping adjacent pieces by 25mm (1"). When placing PUR-DECOFLOW over wood, cutback and nonporous floors the addition of emulsion is required to increase the performance of (see "Mixing").

OVER CUTBACK AND ADHESIVE RESIDUE

Mix a minimum of 2 bags at a time. For each 22.7kg (50lbs) bag add 5.2L of clean potable water into the mixing drum. Then add the PUR-DECOFLOW bags, while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" drill (min. 650rpm). Always add the product to the mixing water. Mix completely for a minimum of 2 to 3 minutes until mixture is homogeneous and lump free. Do not add any additional water once the homogeneous mix has been obtained. Over wood, cutback and non-porous subfloors the addition of emulsion is required to increase the resiliency of PUR-DECOFLOW. Mix 1.4L of emulsion with 3.8L of clean potable water for each bag of PUR-DECOFLOW. Add this mixture into the mixing drum followed by the addition of PUR-DECOFLOW bags and mix as outlined above. It is also recommended to use two (2) mixing drums simultaneously, mixing one (1) drum while the other is being poured. In this manner, we avoid slowing down the pours while respecting the 2 to 3 minutes mixing time. PUR-DECOFLOW can also be pumped affording high productivity and continuous smooth placement. Contact your local PurEpoxy representative for the recommendations concerning specific equipment to be used.

NON POROUS SUBSTRATES

Ceramic tile, terrazzo, quarry tile and stone must be solid, well bonded, clean and free of any bond breaking contaminants such as glazes, wax, oil, sealers etc... Surfaces must be mechanically sanded or Blastracked® until a "profile" is obtained for the maximum bonding of PUR-DECOFLOW. Vacuum the floor surface, removing all debris, dust and loose material prior to installing the primer.

PRIMING: ALL SURFACES

All substrates must be clean, dry and primed before PUR-DECOFLOW is applied. Subfloor temperature must be at least 10°C (50°F). Mix 3.8L (1 US gal) of a PRIMER with 3.8L (1 US gal) of clean potable water. That volume will cover approximately 35m² to 40m² (350ft² to 400ft²) of floor area. PRIMER must be applied evenly with a nylon pushbroom with exploded tips. Do not use paint rollers, mops, or spray equipment. Apply a thin layer leaving no bare spots, puddles or excess primer. Allow to dry to a clear, thin film (usually 2 hours, but less than 24 hours before applying PUR-DECOFLOW).

PRIMING: VERY POROUS CONCRETE

Precaution: To avoid the development of bubbles and pinholes in the PUR-DECOFLOW, very absorbent concrete may require two applications of PRIMER. Apply the first coat of PRIMER diluted (1 part of PRIMER with 3 parts of clean potable water). Let this coat completely dry and install a second application of primer (1 part of PRIMER mixed with 1 part of clean potable water). Let dry, then apply PUR-DECOFLOW.

PRIMING: NON-POROUS SUBSTRATES, WOOD AND CUTBACK

Prime the above subfloors using PRIMER. Apply a thin layer using a pushbroom, covering all areas, and not leaving any excess primer puddles. Allow to completely dry then apply PUR-DECOFLOW. Note: Low subfloor temperatures, or high humidity will slow primer drying. Never place PUR-DECOFLOW until the primer is completely dry.

MIXING

Mix a minimum of 2 bags at a time. For each 22.7kg (50lbs) bag add 5.2L of clean potable water into the mixing drum. Then add the PUR-DECOFLOW bags, while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" drill (min. 650rpm). Always add the product to the mixing water. Mix completely for a minimum of 2 to 3 minutes until mixture is homogeneous and lump free. Do not add any additional water once the homogeneous mix has been obtained. Over wood, cutback and non-porous subfloors the addition of emulsion is required to increase the resiliency of PUR-DECOFLOW. Mix 1.4L of emulsion with 3.8L of clean potable water for each bag of PUR-DECOFLOW. Add this mixture into the mixing drum followed by the addition of PUR-DECOFLOW bags and mix as outlined above. It is also recommended to use two (2) mixing drums simultaneously, mixing one (1) drum while the other is being poured. In this manner, we avoid slowing down the pours while respecting the 2 to 3 minutes mixing time. PUR-DECOFLOW can also be pumped affording high productivity and continuous smooth placement. Contact your local PurEpoxy representative for the recommendations concerning specific equipment to be used.

APPLICATION

PUR-DECOFLOW will level itself for 25 to 35 minutes at 21°C (70°F) with no trowel work required. Pour the blended PUR-DECOFLOW on the floor and disperse with the spreader, followed by smoothing the material with the smoother or similar floating tool. Cleated shoes must be worn to avoid leaving marks.

**PUR-DECOFLOW can be applied from 3mm (1/8") up to a 100mm (4") thickness in one step.*

Note: For all placements of product exceeding 50mm (2"), the addition of aggregate is required. Contact your local representative to determine recommended type, size and dosage per bag of aggregate extension.

CURING

PUR-DECOFLOW is self curing. The application of concrete cures is not required. All floor adhesives compatible with concrete may be used on PUR-DECOFLOW.

RESTRICTIONS

- For interior use only
- Not a wearing surface. It must be covered.
- Do not use this product if packaging is damaged
- Do not add admixtures (accelerators, etc...) or antifreeze to this product
- Do not use for repairs exceeding 100mm (4") in thickness
- Do not place on surfaces where the temperature is above 32°C (90°F) or below 7°C (44°F)
- Provide protection from wind and direct sunlight during application
- High temperature reduces working time. The use of cold water is recommended
- Do not install over gypsum based surfaces
- Do not apply on light weight based concrete

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of PurEpoxy. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. PurEpoxy assumes no legal responsibility for use upon these data. PurEpoxy assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.