



Conflow
Premium Self-Leveling Floor Underlayment

PRODUCT DESCRIPTION

Conflow is a premium cement based, non-shrinking, self-leveling floor underlayment designed for interior use. This single component product results in a smooth subfloor that typically will accept floor coverings 14 hours after installation. Mix Conflow with water, pour or pump it onto the floor and it will level itself (no troweling) to a smooth hard surface.

Conflow can be applied in thickness ranging from 1/16" (.16 cm) up to 4"(10.2 cm). It develops a superior bond to the substrate and it will accept foot traffic normally within four hours. Conflow is not a gypsum based product.

USE

Conflow can be used to level or create a smooth surface on interior concrete floors, ceramic tile, or terrazzo floors. It can be used on new construction projects to correct rough or unfinished concrete and to level out uneven floors. On restoration projects, use Conflow to produce a smooth even finish over old concrete, terrazzo and ceramic tile floors.

BENEFITS

- ◇ Walkable in 3-4 hours
- ◇ Self-Leveling
- ◇ Typically accepts floor coverings in 14 hours
- ◇ Pumpable for better productivity
- ◇ Non-Shrinking/No Dusting
- ◇ Excellent bonding
- ◇ Compatible with most carpet and tile adhesives
- ◇ Exhibits excellent healing characteristics
- ◇ Excellent work time

PROPERTIES, TEST DATA

Set Times (ASTM C-191)

Initial 90 Minutes
Final 2 ½ Hours

Self Leveling Work Time

20 Minutes at 68°F (20°C)

Compressive Yield Strength (ASTM C-109)

1 Day 3,000 psi (20.7 MPa)
7 Days 4,400 psi (30.3 MPa)
28 Days 5,400 psi (37.2 MPa)

Note: The data shown is based on controlled laboratory testing. Reasonable variation from results shown can be expected.

APPLICATION

Surface Preparation:

To prepare surface, follow all standard ACI recommendations. Remove all dirt, gas, oil, grease, asphalt, paint, curing compounds, and all loose surface materials. Do not use Conflow on painted or sealed surfaces. To give floors a solid rigid base, patch all cracks with Conspec's All Patch or Feather Patch 24 hours prior to

application.

Priming:

Prime concrete surface with the ready-to-use Primeflow. Apply with a brush or broom at 100-300 ft² per gallon (2.5-7.4 m²/L) being careful to avoid any puddling or ponding of the primer. Coverage will depend on texture of the surface. Allow the primer to dry completely to the touch before proceeding, at least 3 hours at 70°F(21°C), and 50% R.H. (do not wait longer than 24 hours).

For wood, ceramic tile, terrazzo and other non-absorbent surfaces, contact Conspec for special instructions.

Mixing:

Pour 6-1/2 qts. (6.2L) of water into a mixing container, then add one 50 lb. (22.7 kg) bag of Conflow. With a blending paddle attached to a heavy duty electric drill (650 rpm), mix for one to two minutes until mixture is smooth and free of lumps. For pumping applications, mix for one to two minutes in the pump's mixing tank. Do not over water or retemper.

INSTALLATION

Pour Conflow over the substrate spreading the material with a long handled spreader.

Conflow can be pumped using an appropriately sized grout pump. Call Conspec for more information.

Installation thickness can range from feather edge up to 4"(10.1 cm). For layers greater than 1-1/2" (3.8 cm) thick, Conflow should be extended with 15 – 25 lbs. (6.8 – 11.3 kg) of clean 3/8" (1 cm) pea gravel for each 50 lbs. (22.7 kg) bag. First mix Conflow as in earlier instructions and then during the last minute of mixing add the required aggregate. Should a finish coat be required, apply a non-extended layer of Conflow after the first pour becomes walkable. First reprime the first pour with another application of Primeflow. No troweling is necessary. Conflow will level itself during the first 20 minutes at 70°F (21°C) and will accept foot traffic in 4 hours. Wearing shoes with cleats for installing Conflow is recommended.

Under normal conditions, floor coverings can be applied in 14 hours. This can be accomplished provided the temperature, relative humidity and ventilation during installation and curing is maintained properly. Temperatures should be 72°F (22°C) or higher, relative humidity should be less than 60% and the area should be ventilated to assist in the drying and curing process. Care should be taken when ventilating to avoid direct air movement over the surface of the Levelayer. This can cause wrinkling and/or cracking to the surface of the material. All floor adhesives compatible with normal concrete may be used on Conflow. Do not install Conflow when the average daily temperature is less than 40°F (4°C). During hot weather, work quickly and use cold water for mixing because the average working time will decrease.

Placing:

It is recommended that placing should be in lanes a maximum of 15 ft (4.6 m) in width using foam tape or other suitable forming material. Place in a continuous operation by pumping or pouring back and forth within the width of the formed area. It is important that this be done in a continuous operation to achieve proper merging of the material. Crew sizes, equipment and material should be such to continuously place within the working time of 10-25 minutes @ 70°F (21°C).

Maximum Depth:

1" (2.54 cm) neat, 4" (10.1 cm) extended
Conflow can be extended by adding 15 lbs. (6.8 kg.) of clean 3/8" (.1 cm) pea gravel for each 50 lbs. (22.7 kg.) of product. This is recommended in areas over 1" (2.5 cm) thick. First mix Conflow per earlier instructions and then during the last minute of mixing add the required aggregate. Should a finish coat be required, apply a non-extended layer of Conflow after the first pour becomes walkable. Re-prime the first pour with another layer of Conspec Primeflow.

ESTIMATING YIELD

Primeflow

100-300 ft² / gal. (2.45-7.36 m² / L)

Conflow

50 to 55 ft² at 1/8" (4.6- 5.1 m² at .3cm) thickness per 50 lbs.(22.7kg) bag.

PACKAGING

ITEM #	Package	Weight			
		Gals	Liter	lb.	kg
Primeflow 301768	Gallons	1	3.8		
Conflow 308575	Bags			45	20.4

STORAGE

Shelf life is one year. Store in a cool, dry location. At no time should material be exposed to high moisture, rain or snow conditions.

LIMITATIONS

DO NOT place at temperatures below 40°F(4°C) or if the temperature is expected to fall below 40°F(4°C) in the next twenty-four hour period. During hot weather, work quickly and use cold water for mixing because the average working time will decrease. Wind over 5 M.P.H. can dehydrate Conflow and cause cracking. Unless area of application can be protected from wind, application should be postponed until there are favorable conditions. Temperatures in excess of 80°F (26.7°C), ambient or surface, can cause flash set and dehydration, resulting in cracking and debonding. Contains calcium sulphate hemi-hydrate. Not for use in areas of frequent contact with water. Not intended as a wearing surface or for use prior to installing high build epoxy or epoxy terrazzo systems.

PRECAUTIONS

Caution. Contains Portland Cement and sand. Cement will cause irritation. Avoid contact. Use of a dust respirator, safety goggles and rubber gloves are recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes. Get prompt medical attention. DO NOT wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS), product labels and technical literature. Please read this information prior to using the product.

MANUFACTURER

Conspec is a brand of Dayton Superior Corp.
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Technical Service 877-416-3439

WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

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