

Conflow Supreme

Premium Self-Leveling Floor Underlayment

Description

Conflow Supreme 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 Supreme with water, pour or pump it onto the floor and it will level itself (no troweling) to a smooth hard surface.

Conflow Supreme 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 Supreme is not a gypsum based product.

Manufacturer

Conspec
4226 Kansas Avenue
Kansas City, Kansas 66106
Customer Service (800) 348-7351
Technical Service (877) CONSPEC

Use

Conflow Supreme 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 Supreme to produce a smooth even finish over old concrete, terrazzo and ceramic tile floors.

Benefits

- Walkable in 3-4 hours.
- Self-Leveling.
- Approved by the Ceramic Tile Institute.
- Typically accepts floor coverings in 14 hours.
- Pumpable for better productivity.
- Cement based.
- Non-Shrinking/No Dusting.
- Excellent bonding.
- Compatible with most carpet and tile adhesives.

- Exhibits excellent healing characteristics.
- Excellent work time.

Application

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 Supreme on painted or sealed surfaces. To give floors a solid rigid base, patch all cracks with Conspec 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. (6.2 L) of water into a mixing container, then add one 50 lb. (22.7 kg) bag of Conflow Supreme. 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.

APPLICATION PROPERTIES *

Coverage	50-55 ft ² at 1/8" per 50 lb bag	
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)
Flexural Strength (ASTM C-348)	1 Day	750 psi (5.2 MPa)
	7 Days	850 psi (5.9 MPa)
	28 Days	1000 psi (6.9 MPa)

Conflow Supreme can be extended by adding 15-25 lbs.(6.8-11.3 kg.) of clean 3/8"(.1 cm) pea gravel for each 50 lbs.(22.7 kg.) of product. This is recommended in layer areas over 1½" (3.8 cm) thick. First mix Conflow Supreme as provided 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 Supreme after the first pour becomes walkable. First re-prime the first pour with another layer of Conspec Primeflow.

Installation:

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

Conflow Supreme can be pumped using an appropriately sized grout pump. We recommend using Chem Grout Pumps in LaGrange Park, Illinois at 708-354-7112 or call Conspec for more information.

Installation thickness can range from 1/16"(.16 cm) up to 4"(10.1 cm). For layers greater than 1½"(3.8 cm) thick, Conflow Supreme should be extended with 15-25 lbs. (6.8-11.3 kg) of clean 3/8"(.1 cm) pea gravel for each 50 lb. (22.7 kg) bag.

No troweling is necessary. Conflow Supreme will level itself during the first 20 minutes at 70° F (21°C) and it will accept foot traffic in 4 hours. We suggest wearing shoes with cleats for installing Conflow Supreme.

Under normal conditions, floor coverings can be applied in 14 hours All floor adhesives compatible with normal concrete may be used on Conflow Supreme.

Do not install Conflow Supreme 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.

Packaging

Primeflow - 1 gal.(3.8L) units/4 per case
Conflow Supreme - 50 lb.(22.7 kg) bags, 60 bags/pallet

Limitations/Precautions

Not to be used outdoors. Protect the pour from excessive drying due to heat and wind. Do not install below 40°F(4°C) and use cool water when ambient temperature is above 90°F(32°C) No other admixtures are required to be used with Conflow Supreme.

Skin is sensitive to cement. Prolonged contact may result in severe burns. Wearing rubber gloves is recommended. Avoid contact with skin. If eye contact occurs, flush immediately with water. Refer to Material Safety Data Sheet for additional information.

Clean-Up

Use water

Warranty

Conspec 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 Conspec, the product is free of manufacturing defects and conforms to Conspec's published specifications in force on the date of acceptance by Conspec of the order. Conspec shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Conspec's instructions in this technical data sheet. The purchaser must examine the product when received and promptly notify Conspec in writing of any non-conformity before the product is used, or no later than 30 days after such non-conformity is first discovered. If Conspec, 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 an Conspec officer is authorized to modify this warranty. The sales information on the Conspec website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, 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.

Limitation of Liability

Conspec shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Conspec could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

Storage

Shelf life is one year. Store in a cool, dry location.

Technical Services

Complete technical and specification services are available from the manufacturer and their authorized representatives and distributors.

Filing System

Additional literature and the Material Safety Data Sheet can be obtained from Conspec upon request.