OptiSeal™

Technical Data Sheet (TDS)

OptiSeal™ is a fast-drying high strength acrylic based, primer/sealer and subfloor moisture treatment specially designed to be used with Mohawk branded adhesives. OptiSeal™can be used to isolate old carpet and cutback adhesive residues, to seal porous and dusty surfaces and as a subfloor moisture treatment over concrete slabs that exhibit a moisture vapor emission rate (MVER) of up to 8 lbs. per 1000 square feet per 24 hours or a relative humidity (RH) of up to 90%. It is non-flammable and has low odor and low VOC's which makes it ideal for use in schools, healthcare facilities, public buildings, and anywhere odor is an concern. OptiSeal™ also contains dual broad spectrum antimicrobial protection.

Features & Benefits

- Fast-Drying Primer/Sealer
- Reduces Moisture Emissions
- CRI Green Label

USE

Compatible with all Mohawk Group products and adhesives. Interior commercial (office buildings, hotel rooms, and hallways, restaurant dining areas) Interior institutional (hospitals, schools, universities, libraries, government buildings).

SUBFLOOR PREPARATION

Before applying OptiSeal™ the substrate must be clean and free of dust, dirt, oil, grease, paint, curing compounds, concrete sealers and any other substance that may prevent proper adhesion. All concrete substrates must have an effective moisture vapor retarder. Concrete slab must be less than 8lbs. per 1000 sq. ft. per 24 hours (ATSM 1869) or the RH must be less than 90%(ASTM 2170) and the surface pH must be no greater than 11.

NOTE: To correct a permanent moisture issue use an appropriate moisture remediation system.

SUITABLE SUBSTRATES

Exterior-grade plywood, Group 1, CC type. Other approved wood underlayments (per manufacturer recommendations). Concrete and properly prepared cement terrazzo. Cement-based, self-leveling underlayments and patching compounds. Embossing levelers applied over existing, properly prepared and fully bonded ceramic tile and fully bonded, vinyl composition tile (VCT) – one layer only.

Properly prepared and primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength.

NOTE: When installing EcoFlex ICT (PVC) over cutback or adhesive residue, use Mohawk Group OptiSeal™ as a barrier to help prevent plasticizer migration. Following instructions for use, apply the OptiSeal™ only after existing adhesive is mechanically scraped to a smooth minimal residue.

Consult Mohawk's Technical Services for installation recommendations regarding substrates and conditions not listed.

APPLICATION

Read all installation instructions thoroughly before installation. Site conditions and substrate preparation should comply with those specified by the Mohawk Group installation guidelines. The installation site must be acclimated with HVAC in operation. The jobsite, substrate and the OptiSeal™ must be conditioned at a temperature of 65° - 85°F and an interior humidity of 30 -65% for at least 48 hours before and during the installation. When installation is complete the jobsite must be maintained at normal service temperature and humidity. If these conditions are not attainable, contact Mohawk Group Technical Services. OptiSeal™ can be applied over a variety of porous and non-porous, properly prepared surfaces including steel, terrazzo, APA approved plywood, adhesive residue and concrete.

USE AS PRIMER/SEALER:

Apply the OptiSeal™ only after all existing adhesive is mechanically removed to a smooth, minimum residue. Apply sealer onto substrate with a 3/8" (10mm) nap roller, rolling in the same direction at a rate of no more than 30 - 35 sq. yds. per U.S. gal. (25.1 - 29.3 m2 per 3.79=L). Keep the roller saturated and wet with OptiSeal™ throughout the installation in order to maintain a constant spread rate. OptiSeal™ must be allowed to dry for at least 2 hours if the adhesive (EnPress PSA or NXT) is applied with a roller or for at least 4 hours if a trowel application is required.

USE AS MOISTURE TREATMENT:

Apply OptiSeal™ onto the substrate with a 3/4" (19 mm) nap roller, rolling in the same direction at a rate of 20 - 25 sq. yds. per U.S. gal. (16.7 - 20.9 m2 per 3.79 L). Keep the roller saturated and wet with OptiSeal™ throughout the installation in order to maintain a constant spread rate. OptiSeal™ must be allowed to dry to a clear film before applying adhesive. For old surfaces, apply OptiSeal™ as described above only after the existing adhesive is mechanically removed to a smooth clean surface.

NOTE: Drying time will vary with temperature, humidity and air velocity.

CLEAN UP

Promptly clean any OptiSeal™ from any unwanted surface with water while it is still fresh/wet. Clean tools with water while the OptiSeal™ is still fresh/wet.

Use mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some

materials. DO NOT APPLY SOLVENT DIRECTLY TO THE FLOORING MATERIAL.

SHELF LIFE
Two years when stored in original, unopened packaging at 73°F (23°C).

COVERAGE
Coverage must not exceed 20 - 25 sq. yds. per gallon when used as a moisture sealer or 30 -35 sq. yds. per gallon when used as a primer/sealer. Certain site conditions can reduce coverage rates. It is the responsibility of the installer to ensure the correct amount of OptiSeal™ is applied for the site conditions.

Keep the roller saturated and wet with OptiSeal™ throughout the application process in order to maintain a consistent spread rate. Allow to completely dry until transparent. Drying time will vary with temperature, humidity and air velocity. See floor covering installation recommendations for further instructions.

PROTECT FROM FREEZING
Freeze/thaw stable up to 5 cycles at 0°F (-18°C). Store at room temperature.

NOTE: Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

LIMITATIONS
Do not install over any substrates containing asbestos. For interior installations only.

Do not install when the moisture vapor emission rate (MVER) exceeds 8 lbs. per 1,000 sq. ft. per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869). Do not install when the relative humidity (RH) of the concrete slab exceeds 90% (ASTM F2170).

Use only when the substrate temperature is between 65°F and 90°F. pH reading should be a maximum 11.

Building owners should be advised of Mohawk Group's installation guidelines for climate control settings (temperature and humidity). These conditions must be monitored and kept constant in order to ensure the overall performance and long-term success of the installation.

MIXING
Ready to use; no mixing is necessary.

NOTE: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

PRODUCT PROPERTIES

POLYMER TYPE	Vinyl acrylic
PERCENT SOLIDS:	54% to 60%
VOCS (RULE # 1168 OF CALIFORNIA'S SCAQMD):	Less than 26 g/L
ROLLER APPLICATION:	Easy
CONSISTENCY:	Creamy
COLOR:	Off-white
SHELF LIFE:	2 years when stored in original packaging at 73°F (23°C)
STORAGE CONDITIONS:	Protect from Freezing
FLASH POINT (ASTM D56):	> 212°F (100°C)

NOTE: This product is not designed for use as a finish surface. Product should be covered with flooring material within 24hrs of application. Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

APPLICATION TABLE

Application Characteristic

FLASH TIME* (WHEN USED TO COVER OLD ADHESIVE)	FLASH TIME* (WHEN USED AS A MOISTURE SEALER)	WORKING TIME**
2 hrs or until dry to a clear film	4 hrs minimum before adhesive application	24 hours

*Flash time: The minimum amount of time following application recommended for the sealer to remain exposed to the air and before the application of adhesive.

**Working time: The maximum amount of time that the sealer can remain exposed to the air and before the installation of floor covering.

NOTE: Flash and working times vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

TYPICAL APPLICATION METHOD AND APPROXIMATE COVERAGE†

APPLICATION TYPE	RECOMMENDED	ROLLER COVERAGE
Encapsulate old adhesive	3/8" nap roller	30 – 35 sq. yds. per US gal.
Moisture Sealer	3/4" nap roller	20 – 25 sq. yds. per US gal.

† Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according by application method, substrate, substrate conditions and actual thickness applied.

CONDITIONS EXCLUDED AND NOT WARRANTED:

- Installations that were not properly tested and treated as instructed.
- Use over unapproved sealers and curing additives.
- Improper application or use of sealer or adhesive or the use of unapproved adhesives.
- Hydrostatic pressure in substrates or moisture readings higher than 8lbs Calcium. Chloride or 90% In-Situ Relative Humidity as determined by ASTM F-1869 and F-2170.
- Chemically cleaned subfloors.
- Failures due to outside water sources such as an outside grade that is above substrate, sprinklers that are soaking the ground at the building foundation, overflow drains not directed away from the foundation, flooding or other natural disasters or weather conditions.
- Failure of leveling patch compounds of any kind.
- Damage caused by expansion joints or other structural areas

Please feel free to contact the Technical Services Department at 800.833.6954 for further information.