

1. Product Name

DecoArmor. Products and Systems.

2. Manufacturer

DecoArmor

3. Product Description

BASIC USE

DecoArmor is an advanced alternative to traditional products that are used for interior and exterior finishes on walls, floors, counters, and other surfaces.

Each DecoArmor finish product is carefully reproduced from natural products providing exact replicas of textured articles, such as stone, brick, wood, and others. DecoArmor is an excellent substitute for traditional products and installs easily with little time and cost. DecoArmor does not typically require structural support, lift equipment or skilled labor, or a mason to install.

4. Availability & Cost

AVAILABILITY

Available from manufacturer's authorized distributors in select regions.

COST

Products are typically priced by the piece. Landed costs are determined by the distance from the manufacturer and quantities ordered.

5. Installation

PREPARATORY WORK

Handle and store product according to manufacturer's instructions. Make sure all substrate surfaces are clean and dry, free of grease, oil or dust. Ensure any existing surfaces to receive Products are securely fastened or adhered prior to installation.

METHODS

Products are easily field cut with conventional construction cutting tools, and installed with packaged or specified materials. Products lightweight nature make applications quick and easy.

COMPOSITION & MATERIALS

DecoArmor textured finishing products are applied directly over the substrate or surface. Surface may require pre-treatment of a weather resistant membrane (see DecoArmor Installation Guidelines). DecoArmor products are made from high density, self-curing polyurea with a permanently impregnated color coating that is colorfast and UV stable. Silicone rubber molds are cast from real stone, wood, metal and other decorative textures. The specially formulated color coating is applied fully

across the mold surface, followed by a specially formulated high density Polyurea that is sprayed across the mold surface. The polyurea is thermally bonded into the color coating to form an integral, UV stable, colorfast, and impact resistant part.

The high density polyurea exhibits great impact and scratch resistance, and high tensile and shear strength. Its elastomeric closed cell properties make it water resistant, and also resistant to solvents, pests and fungi. The iron oxide-based finish coat gives the product an authentic appearance and provides great resistance to weather and practically all external elements.

LIMITATIONS

The products should not be used to structurally support other objects.

SIZES

The products come in a variety of sizes and shapes, including wall panels and corners, wall and floor tiles, trims, and details. Products come in a variety of motifs, colors, and designs. Please see manufacturer's product catalog for additional offerings.

6. Products Component Materials

Polyurea Themecoat 751-FR is a Class 1 fire-rated, fast set, rapid curing, aromatic, two component hybrid polyurea/polyurethane spray designed to be applied over EPS, wood, concrete, block and many other surfaces. Its excellent balance of stiffness and impact resistance provides excellent plastic "shell-like" protection for delicate foams and EPS. Themecoat® 751-FR's chemical design allows fast "user-friendly" application with excellent flow and appearance.

FEATURES

1:1 Mix Ration By Volume

100% Solids

Excellent Chemical Protection

Excellent Cold Temperature Impact Resistance

Excellent Thermal Stability

Fast Cure

High Productivity

Low Shrinkage

Meets ASTM E-84 Class 1 Fire Test Criteria

Plastic "Shell-Like" Protection

Zero VOC

Product Properties

- *100% solids, two component polyurea coating*
- *Contains no VOC's*
- *Good resistance to inorganic bases, acids and hydrocarbon solvents*
- *Good resistance to oxygenated and chlorinated*

solvent

- Good resistance to hot water up to 180° F

Product Uses

- Nonskid surface
- Use as a non-immersion grade tank lining for steel and concrete tanks
- Lining of material handling equipment
- Coating of urethane or expanded polystyrene foam insulation
- Waterproofing of structures
- Protection of concrete from acid and alkaline materials
- Use as an environmental containment barrier with or without geotextiles
- Used for lining interior of truck beds
- Use as tank lining material

TYPICAL USES

Containment Tank Lining

Roofing Membrane

Weather Proofing Membrane

Protective Coating

Siding Products

Flooring Products

Architectural Shapes

Decking Products

Landscaping Products

PACKAGING

10-gallon kit: 5 gallon (18.9 liters) pail of Side-A and 5-gallon (18.9 liters) pail of Side-B.

100-gallon kit: 50 gallon (189 liters) drum of Side-A and 50-gallon (189 liters) drum of Side-B.

COVERAGE

Themecoat® 751-FR may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sqft (7.78 liters per 149 sqm).

SURFACE PREPARATION

In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. The following information is for general reference, and for project-specific questions, contact DecoArmor.

MIXING

Thoroughly mix Themecoat® 751-FR Side-B with air driven power equipment until a homogeneous mixture and color is obtained. Themecoat® 751-FR may not be diluted under any circumstances.

APPLICATION

Both Side-A and Side-B materials should be preconditioned to 90-100°F (32.3-37.8°C) before application. Agitate at least one hour prior to application using heavy duty drum agitator. Side-B materials should be continuously agitated before and during application. Recommended surface temperature must be at least 5°F (3°C) above the dew point. Themecoat® 751-FR should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or other equivalent machine may be used. Both Side-A and Side-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F (66°C). Adequate pressure and temperature should be maintained at all times. Themecoat® 751-FR should be sprayed in smooth, multi-directional passes to improve uniform thickness and appearance.

STORAGE

Themecoat® 751-FR has a shelf life of one (1) year from date of manufacture, in factory-sealed containers. Side-A and Side-B drums are recommended to be stored above 60°F (15°C). Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Side-A and Side-B drums regularly.

DO NOT STORE OUTSIDE

LIMITATIONS

Do not open until ready to use.

Both Side-A and Side-B containers must be fitted with a desiccant device during use.

WARNING

This product contains Isocyanates and Curative Material.

TECHNICAL DATA

Mix Ratio: 1A : 1B

Pot Life: 4-6 seconds

Tack Free Time: 30-60 seconds

Recoat Time: 0-12 hours

Viscosity at 150-160 degrees F (66.6-71 degrees C)

Brookfield:

Side A: 100+- 50 cps

Side B: 150+- 50 cps

Density (Side A & B Combined): 10.27 lbs/ gal. (1230 kgs/m³)

Flash Point: > 200 degrees F (>93.3 degrees C)

Hardness: ASTM D-2240* 75 +- 5%

Tensile: ASTM 412-C* 3200 +/- 300 ps (21 MPa +/- 2.1)

Elongation: ASTM 412-C* 15% +/- 10%

Tear: ASTM 624-C* 400 +/- 50 pli (70 kN/m)

Service Temperature -20 degrees F to 300 degrees F (-29 degrees to 149 degrees C)

(*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi (32 MPa) minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F (66-72°C).

Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

PRECAUTIONS

- Always follows DecoArmor installation instructions.
- Always use DecoArmor specified installation materials.
- Detailed manufacturer's instructions are available upon request.
- Flash point ASTM D-56 >720° F
- Flame Spread <25
- Smoke Development < 450
- VOC Testing CAN/ULC-S774 P>200° F
- Weight 8.5 lbs/gallon
- Accelerated weather 2,000 hr weather meter: slight color change
- Salt spray ASTM D-117-73 0.5%

COLOR COATINGS

Testing and Ratings

APPLICABLE STANDARDS

American Society for Testing & Materials (ASTM)

- ASTM C979 Standard Specification for Pigments for Integrally Colored Concrete
- ASTM D153 Standard Test Methods for Specific Gravity of Pigments
- ASTM D185 Standard Test Methods for Coarse Particles in Pigments, Pastes, and Paints
- ASTM D387 Standard Test Method for Color and Strength of Color Pigments with a Plastics Using Activated Carbon Methods.
- ASTM D1208 Standard Test Methods for Common Properties.
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials (coatings are noncombustible)
- Mechanical Muller
- ASTM D1203 Standard Test Methods for Volatile Loss
- data, ASTM D387
- Residue, ASTM D185-84
- Alkali resistance, ASTM C979-82
- Water watability, ASTM C979-82
- Water solubility, ASTM D1208
- Color - 84
- Water absorption, HHC Method

- pH value, ASTM D1203-84

- Density, ASTM D153-54

- Bulking value, HHC Method

Accelerated Weathering Test

Method: Sunlighter MV weather tester turntable.

Tester exposes the specimen to a 400W metal halide bulb at a distance of 6" with water spray 10" every 15 minutes. 200 hours exposure equates to 1 year real time exposure.

Results at 2500 hours:

Surface was good to excellent. Small areas of slight discoloration.

7. Warranty

20 Year Limited Warranty: DecoArmor products are covered for a period of 20 years from the date of purchase. The warranty is valid from date of purchase, and requires that all installation instructions, specified installation materials, and applicable building codes are followed. DecoArmor will replace free of charge any materials deemed defective by a designated representative of DecoArmor. The warranty applies to the original owner and is not transferable.

This warranty does not cover damages that are due to:

- Building settlement
 - Paint, graffiti or chemical exposure
- Manufacturer will be responsible for only the replacement of defective product. Labor costs for the removal and reinstallation are not covered under this warranty.

8. Maintenance

Applications should not require maintenance, other than reapplication of synthetic grout, caulk, and sealants as required. Excessive dirt build-up may be removed with a low pressure application of water.

9. Technical Services

Technical Services are available from the manufacturer or their representatives.

Call 800.416.3544 or info@DecoArmor.com

10. Filing Systems

Additional product information is available from DecoArmor upon request.

For more information contact DecoArmor at

info@decoarmorpro.com