

Duck Coat

The White Roof Coating that Stands up to Ponding Water



Manufacturer:

ThorWorks Industries, Inc.
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Description

Duck Coat is a white, highly elastomeric, thermoplastic rubber coating that provides a waterproof sealant over flat roofs. Duck Coat is formulated to hold up to ponding water conditions on flat roofs. Duck Coat can be installed on most roofing substrates including Built-Up Roofing (BUR), Metal, Concrete, EPDM Rubber, TPO, APP, Modified Bitumen, Polyurethane Foam, PVC, Asphalt, Wood and more. Duck Coat can be applied in cooler temperatures as low as 35 °F. Duck Coat helps extend the life of the roof and reduce building energy costs by increasing solar reflectance. Wet, freshly applied Duck Coat will not wash off even if rain occurs immediately after application. Dries white.

Uses

- Built Up Roofs (BUR)
- Metal Roofs
- EPDM Rubber Roofs
- Modified Bitumen
- Polyurethane Foam
- TPO, APP, PVC
- Concrete Roofs
- And More

Important

Bleed-through may occur when applying Duck Coat over asphalt or coal tar roofs, resulting in a brownish color. Perform a small test patch first to check for bleed-through. If bleed-through occurs, additional coat(s) may be required to eliminate discoloration from bleed-through

Application

For Non-Single Ply Rubber Roof Surfaces (i.e. Built-up, metal, asphalt, concrete, Polyurethane, etc.) Stir Duck Coat thoroughly before and during application. DO NOT THIN. Clean surfaces thoroughly by brooming away dirt, debris, and loose particulate. Broom away excess water and allow roof surface to dry. Duck Coat can be applied by brush, roller or spray. Apply at a rate of 70

square feet per gallon per coat. Two coats are recommended for optimum performance. Allow Duck Coat to dry thoroughly between coats. Airless spray equipment shall be capable of producing 3,000 psi and 1 gallon per minute capacity. Recommended spray tip size is .025 to .035. Dry time of coating is dependent upon temperature (warmer temperature will result in faster dry time). Typical dry time is 2-4 hours. Typical re-coat time is 4-10 hours. Brush should be quality synthetic. Roller should be long nap for solvent based coatings.

For Single Ply Rubber Roof Membranes (EPDM, TPO, HYPALON)

Stir Duck Coat thoroughly before and during application. DO NOT THIN. Power wash and scrub with broom to remove dirt and grime and rinse well. Let dry 24 hours. The following three-step application process is designed to minimize swelling and deformation of the rubber roof membrane as the solvent "bites" into the rubber membrane.

- Using a 9" double supported roller, apply a thin prime coat of Duck Coat at a rate of .5 gallon per 100 square (you should still be able to see some of the membrane showing through.) Allow prime coat to cure for at least 4-6 hours or until dry to the touch.
- Apply a second coat of Duck Coat at a rate of 1 gallon per 100 square feet and allow to dry.
- Apply a third coat of Duck Coat at a rate of 1 gallon per 100 square feet and allow to dry.

NOTE: Duck Coat may be applied to single ply rubber roofs by contractors with experience in spraying solvent based roof coatings in thin layers. IMPORTANT: DO NOT OVER APPLY DUCK COAT AS THIS MAY RESULT IN EXCESSIVE WRINKLING OR BUCKLING OF THE RUBBER MEMBRANE. DO NOT POUR DUCK COAT DIRECTLY FROM PAIL ONTO RUBBER ROOF AS THIS COULD WRINKLE MEMBRANE. POUR DUCK COAT INTO A PAN AND APPLY BY ROLLER AT RECOMMENDED COVERAGE RATE. SPRAY APPLICATION IS ACCEPTABLE BY EXPERIENCED CONTRACTORS.

Clean Up

Xylene.

ASTM D6083 TEST DATA for Duck Coat Liquid Thermoplastic Rubber Coating

Viscosity (@73.4°F #4. 6 RPM), cps	D2196	11,300	12,000 - 85,000
Volume solids, %	D2697	56.3	>50
Initial elongation (@73°F), %	D2370	683	100 min
Initial tensile strength (@73°F), psi	D2370	517	200 min.
Tear Resistance (die C), lbf/in	D624	192	>60
Permeance (20 mil, 73.4°F, inverted), perms	D1653	5.5	50 Max
Water swelling (20 mil film, 73.4°F, 168 hrs) %	D471	0	20 Max
Wet Adhesion (galvanized, 168 hrs, 73.4°F)pli	C794/D903	14.8	2.0 Min
Wet Adhesion (TPO single ply, 168 hrs, 73.4°F)pli	D4798	13.8	2.0 Min
Wet Adhesion (EPDM single ply, 168 hrs, 73.4°F)pli	D2370	3.7	2.0 Min
Fungi resistance	D4798	0	0
Elongation (1000hrs @ 73.4°F) %	D2370	896	100 min
Low temp flex	D522	Pass	Pass
Appearance (1000 hrs accel weathering)	D4798	Pass	No cracking or checking

Coverage (Approximate)

- Non-single ply rubber roof membranes (i.e. Built-up, metal, asphalt, concrete, Polyurethane, etc.): One 4.75 gallon pail will provide enough material for 2 coats over an area of approximately 175-200 square feet.
- For single ply rubber roof membranes (i.e. EPDM, TPO, Hypalon): One 4.75 gallon pail will provide enough material for 1 primer coat and 2 coats over an area of approximately 135-150 square feet.

Precautions

- Do Not Freeze
- Do Not Store At Temperatures Below 50 °F

Safety And Environmental Precautions

- Refer To Material Safety Data Sheet Before Using
 - For Exterior Application Only
 - Close Container When Not In Use
 - Environmental Information Is On The Material Safety Data Sheet
 - Do Not Reuse Empty Container
 - Volatile Organic Content (VOC) Is 550 gm/liter max
 - KEEP OUT OF REACH OF CHILDREN
 - CAUTION! COMBUSTIBLE
- CONTAINS PETROLEUM DISTILLATE. Keep away from heat, spark and flame. To avoid breathing vapors or spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection (NIOSH/MSHA TC 23C or equivalent) or leave the area. Close container after each use. Avoid contact with skin. USE WITH ADEQUATE VENTILATION.
- NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents

with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

INGREDIENTS	CAS No.
Parachlorobenzotrifluoride	98-56-6
Dimethyl Carbonate	616-38-6
Aromatic Petroleum Distillates	64742-95-6
Calcium Carbonate	1317-65-3
Titanium Dioxide	13463-67-7
Rubber Compounds	NA-Mixture
Silicon Dioxide	7631-86-9