



PRODUCERS OF
DECKING AND SEALER PRODUCTS
SINCE 1923

Desert Brand

ROOF TILE SEALER

RTS Series

Application Testing Procedures

TECHNICAL BULLETIN

Purpose

Clear sealer is applied to the tile surface to improve the appearance and control efflorescence. The following steps are recommended by the manufacturer to ensure proper application.

Recommended Parameters

Wet film thickness: 2.5 to 10 mils depending on product grade. This industry standard for wet film thickness will provide optimum protection and visual aesthetics. Lower wet film thickness will compromise the quality of the finished product.

Resulting dry film thickness will be 0.8 to 1.2 mils depending on product grade, depending on type and porosity of the tile.

Preparation

1. TO CHECK WET FILM THICKNESS:

- a) Use a piece of glass or plexiglass approximately the same size as a roof tile. Run the glass/plexiglass through the spray booth.
- b) Place a wet film thickness gauge on the glass/plexiglass at 90° angle. Do not drag or twist the gauge, simply press it onto the glass and withdraw it. Note the deepest tooth having sealer on it and the next higher tooth that does not have sealer. The film thickness lies between these two readings.
- c) Quickly clean the gauge with clean water and dry after each use. Repeat test on several locations on the glass sheet to determine uniformity.
- d) Clean the glass/plexiglass and store for future use.

2. TO CHECK FOR EVEN DISPERSION:

- a) Place a piece of cardboard on top of a tile. Run through the spray booth.
- b) Check cardboard for uniformity in color. Darker areas have more sealer, lighter areas have less. If uneven, follow instructions for cleaning spray heads (Step 3a.)

3. TO CORRECT UNEVEN SPRAYING:

- a) Spray heads should be soaked daily in suitable solvent such as Desert Brand Retarder or Desert Brand Stripper.
- b) If equipment is shut down the spray heads must be changed or re-cleaned if sealer has dried.
- c) Check the pressure of the lines.

CORPORATE HEADQUARTERS: HILL BROTHERS CHEMICAL CO. ■ 1675 North Main Street, Orange, CA 92867 ■ (714) 998-8800

Hill Brothers Branch Offices:	So. California	No. California	Phoenix	Tucson	Salt Lake City	International Sales
TB121 4/2014	(800) 438-8515	(800) 257-1920	(888) 866-2210	(520) 795-9351	(800) 336-3911	(800) 821-7234

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Desert Brand

Roof Tile Sealer

RTS-0V Series

TECHNICAL BULLETIN

Description

Desert Brand Roof Tile Sealers are zero V.O.C. (volatile organic compounds), acrylic, water-based, clear sealers designed for the long lasting protection of concrete or clay roof tiles. Specifically designed to control efflorescence upon roof tile surfaces, RTS-0V also provides excellent water resistance and UV protection while reducing moss and mildew growth. As a zero VOC formula, RTS-0V not only protects the most important asset of a building (the roof), but is also a safe and environmentally friendly alternative to higher VOC products. It is formulated with the latest core-shell technology to satisfy the requirement of a high-quality sealed tile, without the limitations concerning excess volatile organic compounds.

Suggested Use

RTS Series sealers are specifically formulated to supply a deep penetration into the concrete tile, while at the same time, delivering a non-yellowing, semi-gloss, and highly water-resistant film upon the surface. The resulting finish is quick to dry and provides primary and secondary protection from the unsightly effects of efflorescence. These sealers are being successfully used over a variety of concrete tiles ranging from slate or S-tiles, to the more difficult simulated shake or shingle tiles.

Method of Application

RTS-0V can be applied using different dosage rates to create a range of appearances from a subtle, matte look to a more protective, semi-gloss finish. RTS Series sealers are primarily formulated to be applied upon the concrete tile surface after the curing process (dry side). In some instances, the sealer may be applied to the pre-cured concrete tile (wet concrete), depending upon temperature, curing time, and humidity of the kiln. RTS sealers are to be applied during the manufacturing of the concrete roofing tile by means of spray equipment and at no less than 40°F. Most concrete roof tile manufacturing facilities utilize a recirculation spray booth unit, in conjunction with conveyors, prior to or following curing. In most facilities, sealer is supplied in bulk quantities and is delivered to the spray units by way of low pressure delivery lines. For additional information, refer to Technical Bulletin #TB121 on "Application Testing Procedures".

Precautions

Do not allow Desert Brand RTS-0V to freeze. If allowed to freeze, product will not thaw to a usable product. For further information on sealing concrete or clay roofing tile, application procedures, and/or recommended parameters, contact your authorized Hill Brothers Chemical representative.

Technical Data

RTS-0V

Appearance:	Opaque to milky white
V.O.C. (mg/L):	Zero
Solids (wt. %)	10%; 15%; 20% (± 0.5)
Density (lbs/gal):	8.43-8.53 ± 0.2
Viscosity (cps):	5-10
pH:	8.7-9.3
Drying Time:	15-60 seconds @ 140°F
Coverage (sq.ft/gal):	16-600
Shelf Life:	One (1) year
Storage:	Do not allow to freeze.
Packaging:	Bulk Deliveries Drum packaging available.

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