



# TECHNICAL DATA SHEET

## ROOF TILE ADHESIVE

# RT600

## MEETS UPLIFT REQUIREMENTS



**Description:** OSI RT600 Roof Tile Adhesive is a premium grade adhesive developed especially for the repair of concrete, clay, quarry or slate roof tiles on existing roofs. OSI RT600 offers long life expectancy with reduced labor and installation costs. It bonds to most building materials producing a water and weather resistant seal against the elements. OSI RT600 will withstand high temperature roof exposure while maintaining its high tensile and shear strength and meets uplift wind resistance requirements.

### Available As:

Item #	Size	Color
1810372	10 fl oz (295 ml)	Terracotta
1810374	10 fl oz (295 ml)	Grey

### Features & Benefits:

- Produces a Water & Weather Resistant Seal
- Withstands High Roof Temperatures
- Maintains High Tensile and Shear Strength
- Meets Uplift Requirements

### Recommended For:

OSI RT600 is ideal for tile repairs since new tiles can be glued to wood or mortar substrates in replacing the broken tiles. The product is easy to use with all "S" type tile and flat type tile applications. OSI RT600 can also be used for concrete, clay, slate or quarry type roof tiles.

### For Best Results:

- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE) and acrylic or unlined expanded or extruded polystyrene plastic foams
- Not recommended for permanent water immersion
- Not recommended for applications requiring temperature resistance greater than 150°F or below -20°F

### Coverage:

For a 10 fl. oz. (295 mL) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 30.6 ft. (9.3 m)
- A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m)



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## Typical Uncured Physical Properties:

Color:	Terracotta, Grey	
Appearance:	Thick paste	
Base:	Synthetic rubber and resins Formaldehyde free	
Odor:	Sweet, aromatic	
Specific Gravity:	1.44	
Viscosity:	375,000 cps	
Flashpoint:	1.4°F (-17°C)	
% Solids by Weight:	80%	
VOC Content:	0.22% by weight	CARB
	5.67 g/l	SCAQMD rule 1168
Shelf Life:	18 months from date of manufacture (unopened)	
Lot Code Explanation:	<b>YYDDD</b>	
Printed on bottom of plunger:	<b>YY</b> = Last two digits of year of manufacture <b>DDD</b> = Day of manufacture based on 365 days in a year Example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014	

## Typical Application Properties:

Application Temperature:	Apply and cure between 0°F (-18°C) and 140°F (60°C) For best results, store adhesive at 73°F (23°C) 24 hours before use	
Open Time:	15 minutes	At 78°F and 50% relative humidity
Repositioning Time:	30 minutes	
Cure Time:	2-7 days Full cure: 30 days *Cure time is dependent on temperature, humidity, porosity of substrate and amount of adhesive applied	
Extrusion Force:	Approx. 60 lbs	At 73°F
Vertical Sag:	0.125 inches	ASTM C639

## Typical Cured Performance Properties:

Color:	Terracotta, Grey	
Cured Form:	Non-flammable solid	
Service Temperature:	-20°F (-29°C) to 150°F (66°C)	
Water Resistant:	Yes	
Sandable:	No	
Specifications:	Meets or exceeds the following specifications: <ul style="list-style-type: none"><li>• ASTM C109</li><li>• ASTM D897</li><li>• Florida Building Code (2010) TAS 123-95 Section 6</li></ul>	



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## Directions:

### Tools Typically Required:

Utility knife, caulking gun and a tool to puncture cartridge seal.

### Safety Precautions:

Wear gloves. Wash hands after use. Interior applications require ventilation to the outside during application and cure.

### Preparation:

The temperature of the adhesive, the surfaces and the working area must be between 0°F (-18°C) and 100°F (38°C). For smooth, fast, easy application during cold weather, store adhesive at room temperature (70° ± 5°F) 24 hours prior to use. Ensure surfaces to be bonded are clean, dry, structurally sound and free of dust, grease, oil or other contaminants. To increase adhesion, sand glossy surfaces to a dull finish. Pre-fit all materials prior to applying product. Cut off tip of cartridge at 45° angle to desired bead size. For exterior applications, the recommended bead size is 3/8" (9.5 mm). Puncture seal inside of nozzle.

### Application:

Using caulking gun, apply 1/4" to 3/8" bead of adhesive to roof substrate. Ensure a sufficient amount of adhesive is used to ensure good adequate contact between the surfaces areas to be bonded. Do not smear beads. Join substrates by applying pressure within 15 minutes of adhesive application. Repositioning time is approximately 30 minutes. If work is delayed, remove excess adhesive and begin again. After use, wipe off nozzle tip and recap immediately. Allow at least 48 hours for curing at room temperature

### Clean-up:

Clean tools and uncured adhesive residue immediately with mineral spirits or paint thinner in a well-ventilated area to the outdoors. Cured adhesive may be carefully cut away with a sharp-edged tool.

## Storage & Disposal:

NOT DAMAGED BY FREEZING. Store away from heat, flame and spark in a cool, well-ventilated place at room temperature (70° ± 5°F). In cold weather, product should be kept at room temperature for at least 24 hours prior to use to improve extrusion. Use an approved hazardous waste facility for disposal. Hardened material may be disposed of with trash.

## Label Precautions:

**DANGER! EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION.**

**DANGER!** Contains acetone, methyl acetate, and crystalline silica. **EXTREMELY FLAMMABLE.** Vapors may ignite explosively. Do not use or store near heat, sparks or open flame. Do not smoke when using this product. Extinguish all flames and pilot lights and turn off all sources of ignition, including stoves, heaters and electric motors during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. Use in a well-ventilated area. Avoid breathing vapors. Avoid contact with eyes and skin. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area to obtain fresh air. Do not take internally. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center immediately. For eye contact flush with water for 15 minutes, call a physician. For skin contact wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN.**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage or may cause cardiac arrhythmia. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

**Refer to Safety Data Sheet (SDS) for further information.**

## Limited Warranty:

This product is warranted to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This limited warranty gives you specific legal rights, which vary from state to state. Henkel may be contacted at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET for warranty assistance.

## Disclaimer:

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**OSI Tougher than the Elements. For Professional Use Only. The Battle will be Fierce.**

OSI works side by side with residential builders, contractors and remodeling professionals who use our products everyday on their jobsites. OSI combines this deep understanding with the sophisticated global innovation and manufacturing excellence of Henkel to make the world's best professional-grade caulks, sealants and adhesives.

1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET

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