

AF ROOFERS
Hybrid Sealant

33THAF1039/33THAF1040
33THAF1041/33THAF1043

TECHNICAL DATA SHEET

Features

- Cures To Wet Substrates Without Negative Effects
- 100% Solids, Will Not Shrink
- Resistant to UV Degradation & Weathering
- Broad Adhesion Range
- Multi-Purpose, Sealant & Adhesive Applications
- Excellent Long-Term Physical Properties

Additional Features

- Contains No Solvents Or Isocyanates Which Makes THICC AF Roofers VOC Compliant
- Easy to Dispense And Tool At A Variety of Temperatures
- Paintable Within 24 Hours Of Application
- Non-Slump, Can Use On Overhead & Vertical Applications
- Will Cure When Water Or Moisture Is Present
- Low Odor, Eco-Friendly Formulation

Conforms, Meets & Exceeds

- ASTM C920 Class 25, Type S, Grade NS, Use NT, T, A, M, G & O
- TT-S-00230-C Type II, Class B
- Conforms To California Proposition 65
- Conforms To USDA Requirements For Non-Food Contact
- Meets Requirements Of CARB & SCAQMD
- VOC Compliant (17 grams/liter ASTM D2369)

Description

THICC AF Roofers uses innovative hybrid technology to provide a one part, elastomeric sealant/adhesive that will perform in a variety of demanding environments and applications without degrading. Unlike conventional polyurethanes and solvent based sealants/adhesives, THICC AF Roofers is 100% solids, doesn't shrink, doesn't contain harmful isocyanate and performs long-term without degrading, yellowing or chalking. THICC AF Roofers is made to perform in all environments and can be applied to wet substrates and will withstand immediate rainfall without worry. THICC AF Roofers has been formulated with long-term direct sunlight in mind and will continue to provide excellent physical properties even through constant change of temperatures, substrate settling, vibration and movement to provide a water tight seal and a durable bond.



Physical Properties	Test Method	Result
Viscosity	Lab Tested	1,000,000 cps (Spindle 7, 4rpm)
Skin Formation Time	Lab Tested	30 minutes (70°F, 50% RH)
Density	ASTM D1475	13.95 lbs./gal
Hardness	ASTM C661	34 (Shore A)
Modulus 100%	ASTM D412	0.73 MPa
Tensile Strength	ASTM D412	1.16 MPa
Elongation at Break	ASTM D412	300%
Lap Shear	ASTM D412	0.90 MPa
Gun Grade	Lab Tested	Pass (Non-Slump)
QUV Testing	ASTM G154	Pass (10,000 hrs)
Service Temperature	Lab Tested	-50°F to 220°F
Cure In Depth After 7 Days	Lab Tested	11 mm (70°F, 50% RH)

Strength will start to develop immediately and continue increasing for 7 days after application. National Adhesive Distributors recommends testing strength and adhesion on the 7th day. THICC AF suggested application temperature range: 32°F to 150°F. THICC AF Roofers can be applied lower than 32°F. However, it will slow down the curing speed. In general lower temperature & humidity will slow skin and cure times.



AF ROOFERS

Clear Hybrid Sealant

33THAF1039/33THAF1040
33THAF1041/33THAF1043

Common Applications:

THICC AF Roofers is an excellent sealant/adhesive for many Commercial, Industrial and Building applications. Such applications include:

- Window & Door Installation
- Roofing Applications
- Metal Roof Sealant
- Joint Sealant Applications
- Trailer & RV Manufacturing
- Manufactured Housing Applications
- Walk-In Freezer Manufacturing & Installation
- General Construction Applications
- Industrial Manufacturing Applications
- Weather Sealing Applications
- General Adhesive Applications
- Masonry Applications
- *Can be used on additional substrates not listed.*
We recommend testing prior to use.

Directions

THICC AF Roofers is ready to use and requires no mixing or additives. Tooling, if necessary, should be done before skinning takes place. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is generally lengthened by the degree of confinement. Higher temperature and higher humidity will accelerate skin & cure time. Cold temperatures and low humidity will slow down skin & cure time.

Clean Up

Wet adhesive can be cleaned with alcohol or Adhesive Remover & Cleaner. Dry sealant can be removed by abrading or scraping.

Colors

THICC AF Roofers is available in black, grey, cocoa bean, renewal terratone, renewal sandstone, canvas, red rock, bronze, flat white & forest green. Additional colors can be available for purchase.

Packaging

THICC AF can be packaged into caulking cartridges, sausage packs, pails and drums. Additional packaging may be available upon request. Inquire to National Adhesive's sales staff for additional information.

Caution/Safety

Please refer to the SDS for the corresponding product for information regarding safety and handling.

Limitations

Do not store at elevated temperatures. Use only on clean surfaces free of contaminants. Cold temperature and low humidity will slow curing (32°F and below will be most significant). Do not use on olefins such as polyethylene polypropylene or TPO prior to testing. Test all paints before application. Allow treated wood & asphalt to cure 6 months before application. Long-term submersion under water can cause loss of adhesion on some substrates.

Common Bonding Substrates:

THICC AF Roofers can be used on a variety of substrates. Please inquire or test your substrates before use. Substrates may vary with manufacturer. We have listed some common substrates:

- Kynar® Coated Substrates
- Ceramics
- Fibreglass
- Glass
- Granite
- Marble
- Aluminium & Galvanized Metal
- Wood
- EPDM
- EPS or Styrofoam Insulation
- Porcelain
- PVC & Other Plastics
- Porous Surfaces (Concrete, Brick, Etc.)
- *Can be used on additional substrates not listed.*
We recommend testing prior to use.

Surface Preparation

All surfaces should be clean. Alcohol can be used to clean the surface. DO NOT USE petroleum based solvents. Priming for THICC AF Roofers is not normally required for applications to nonporous surfaces. Unprimed adhesion can be easily tested by applying a small trial bead and allowing 7 days for maximum adhesion to occur.

Testing

Test per application requirement. Allow 7 days for maximum strength to develop before testing adhesion or strength.

Storage

When stored at 70°F and 50% RH, THICC AF Roofers has a shelf-life of 12 months in cartridges. When stored at 70°F and 50% RH, THICC AF Roofers has shelf-life of 6 months in pails and drums. High temperature and high humidity can significantly reduce shelf-life.

Warranty Limitations

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain such authorization. Because the storage, handling and application of the material is beyond National Adhesive Distributors control, we can accept no liability for the results obtained. National Adhesive Inc sole limited warranty is that the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use nor any other express or implied warranty. National Adhesive Inc will not be liable for incidental, or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted. Suggestions of uses should not be taken as inducements to infringe upon any patents.