3M Scotch-Grip[™] Industrial Adhesive 4550

Technical Data		October, 2002
Features	 3MTM Scotch-GripTM Industrial Adhesive 4550 is a sprayable, synthetic elastomer based adhesive for bonding many lightweight materials such as felt, cork, cardboard, and paper to metal and other substrates. 	
	• Ideal for palletizing "all-plastic" shipping bags. Holds bags in place during storag and shipment. When unstacking, bags separate easily with no bag tearing.	
	• Fast tacking; ideal for low pressu Offers high coverage and long be	re spraying with minimal misting and cobwebbing onding range.
		mation and data should be considered representativ t be used for specification purposes.
	or typical only and should no	t be used for specification purposes.
Typical Physical Properties	or typical only and should no Base:	t be used for specification purposes.
	or typical only and should no Base: Color:	t be used for specification purposes. SBR Light tan to light amber
	or typical only and should no Base: Color: Solvent:	t be used for specification purposes. SBR Light tan to light amber Isohexanes, Cyclohexane
	or typical only and should no Base: Color: Solvent: Net Weight (approx.):	t be used for specification purposes. SBR Light tan to light amber Isohexanes, Cyclohexane 6.4 - 6.6 lbs./gal.
	or typical only and should no Base: Color: Solvent: Net Weight (approx.): Flash Point:	t be used for specification purposes. SBR Light tan to light amber Isohexanes, Cyclohexane 6.4 - 6.6 lbs./gal. -20°F (-29°C) (TCC)

Handling/Application Information	Directions For Use	
	Palletizing Plastic Bags	
	1. Application: Spray a uniform line of adhesive down center of bag. Bags can be palletized immediately or within 5 minutes depending upon temperature, humidity and air movement. Best results are obtained if the bags are palletized when the adhesive is aggressively tacky.	
	2. Drying Time: Palletized bags may be handled immediately. Strength of bond increases over a period of 24 hours.	

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Handling/Application **Directions For Use Information** (continued) General Bonding 1. Surface Preparation: Surfaces must be clean, dry and dust free. Wiping with a solvent such as 3M[™] Scotch-Grip[™] Solvent No. 3 or Methyl Ethyl Ketone will aid in removing oil and dirt.* 2. Application Temperature: For best results the temperature of the adhesive and the surfaces being bonded should be at least $65^{\circ}F(18^{\circ}C)$. 3. Application: Stir or agitate well before using. Porous Surface(s): Brush, spray, flow or roll a uniform coat on the least porous surface to be bonded. Bond immediately, applying pressure to ensure contact. **Non-Porous Surface(s) (or for higher immediate strength):** Apply a uniform light coat on each surface. Allow the adhesive to dry until it is tacky. Then apply sufficient pressure to ensure intimate contact. 4. Cleanup: Excess adhesive may be removed with a solvent such as 3MTM Scotch-GripTM Solvent No. 2.* *Note: When using solvents, be sure to extinguish all ignition sources and follow the manufacturer's precautions and directions for use when handling such materials. **Application Equipment** Note: Appropriate application equipment can enhance adhesive performance. We suggest the following application equipment for the user's evaluation in light of Suggestions the user's particular purpose and method of application. 1. Pumping: A 2:1 divorced design pump is suggested. All material hoses should be nylon or PVA lined. Packings and glands, in contact with the adhesive, should be Teflon[®] 2. Spray: **Production Type Spray Equipment** Approximate Air Fluid Fluid Tip Air Pressure Spray Applicator Air Cap **Requirement*** Flow** **DeVibiss JGA** 45 FF 3 CFM 6-15 fl. oz./min. 25 psi Binks No. 95 or 2001 66S 63C 25 psi 3 CFM 6-15 fl. oz./min. Flow Volume Spray Equipment **DeVibiss MSA** 944 F 25 psi 6-15 fl. oz./min. Binks No. 370A 85F 85 25 psi 6-15 fl. oz./min.

*3/4 H.P. Compressor for intermittent use. (1/3 H.P. for low volume)

1 H.P. Compressor continuous use. (1/3 H.P. for low volume)

**To Measure Fluid Flow: Pressurize fluid source only; pull trigger, flow material into measuring device for 60 seconds, increase or decrease fluid source pressure to obtain desired fluid flow.

3. Brush/Roller: Typical brushes/rollers designed for oil based paint may be used.

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Typical Adhesive Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Performance **Characteristics** Adhesion: 180° peel strength was measured on cotton duck to galvanized steel bonds. The bonds were made by applying the adhesive to both surfaces, joining the surfaces, and aging for 24 hours at room temperature and 48 hours at 120°F (49°C). **Results: Peel Strength** Scott Tensile Tester (2 in. per minute separation rate) 12 piw Storage Store product at 60-80°F (16-27°C) for maximum storage life. Higher temperatures can reduce normal storage life. Lower temperatures can cause increased viscosity of a temporary nature. Rotate stock on a "first in-first out" basis. When stored at the recommended conditions in the original, unopened container this Shelf Life product has a shelf life of 15 months from date of shipment.

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4550

Precautionary Information	Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.
For Additional Information	To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/adhesives. Address correspondence to: 3M Industrial Adhesives and Tapes Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.
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