

SM AR01

ACRYLIC COPOLYMER

S-M

TECH DATA

PRODUCT NAME:

SM AR01 Acrylic Copolymer.

MANUFACTURER:

Schnee-Morehead, Inc. Please refer below for listing of manufacturing facilities.

PRODUCT DESCRIPTION:

SM AR01 is a crystal clear acrylic copolymer in toluene solution. Products compounded with SMAR01 exhibit excellent adhesion, good flexibility, and outstanding resistance to ultraviolet radiation, oxidation and weathering due to nitrogen oxides, hydrocarbons or other pollutants.

BASIC USES:

SM AR01 was originally developed for production of clear caulks and sealants. Caulks and sealants formulated with SM AR01 are high solids one part solvent release systems with indefinite stability in a tightly closed container. These can be used as general purpose caulks for mechanically fixed joints and as bedding sealants in fenestration.

HANDLING:

Drums of SM AR01 should be stored at 72°F or higher during cold weather to minimize handling problems due to high viscosity.

CLEAN UP:

Toluene may be used to assist in clean-up of equipment contaminated with residual SM AR01.

SAFETY:

Toluene, the solvent in SM AR01, can be hazardous to your health. Use in a well ventilated area and avoid breathing vapors. Keep away from all sources of ignition and ground all containers. The acrylic copolymer itself is nontoxic. See the Material Safety Data Sheet for other information.

TECHNICAL PROPERTIES	
Characteristic	Result
Density (lbs/gal) @ 100.0% Solids	9.00
Density (lbs/gal) @ 63.0% Solids	8.56
Specific Gravity (25°C)	1.027
Molecular Weight (Wt. Avg.)	245000 Typical
Molecular Weight (Number Average)	61,000 Typical
Appearance	Clear Solution
Refractive Index (@ 20°C)	1.4816 (Polymer solution)
Flash Point (°F)	26
Shipping/DOT	Flammable Liquid
TLV (ACGIH, TWA)	50 ppm (ACGIH)
Boiling Point (°F)	232 (Solvent)
Evaporation Rate	1.9 (Solvent) (BuAc=1)
Water Content, % Max.	0.01%
Acidity (as acrylic acid), % Max.	0.1%
Odor	Aromatic odor
Vapor Pressure @ 20°C	22mm Hg (Solvent)
Nonvolatiles (Percent)	66.5-69.5%
Solvent	Toluene
Viscosity, #4 @ 10 RPM, 77°F	60,000-80,000 cps
Tg	-26°C

PACKAGING:

SM AR01 is available in bulk and in lined, open head 55 gallon drums.

SHELF LIFE:

In a tightly closed original container, SM AR01 has a shelf life of one year from the date of manufacture. Some toluene evaporation can take place but the solids content can easily be adjusted if necessary.

WARRANTY CONDITIONS OF SALE AND LIMITATIONS OF WARRANTIES:

All Schnee-Morehead products and materials are sold subject to the terms and conditions set forth in the technical data sheet, invoice, order acknowledge and/or bill of lading. All statements, technical information and recommendations regarding such products are based on tests and examinations believed to be reliable, but Schnee-Morehead, Inc. neither guarantees nor warrants their accuracy or completeness.

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SCHNEE-MOREHEAD, INC.

LOCATIONS:

Complete technical information is available from Schnee-Morehead. Three locations are strategically located in the United States. For technical assistance, customer service orders and general information, please call **1-800-TRUST SM.**

HEADQUARTERS/

Central Division

111 N. Nursery Road
Irving, Texas 75060
(972) 438-9111
FAX (972) 554-3939

Eastern Division

2325 Lanazol Road
Doraville, Georgia 30340

Western Division

8835 South Dice Road
Santa Fe Springs, California 90670

SUGGESTED FORMULATION—CLEAR ACRYLIC CAULK	
AR01 ¹ Polymer	80.00%
A1100 Adhesion Promoter ²	0.20%
Toluene	11.65%
Propylene Thickener	0.15%
Cabosil PTG Thixatrop ³	8.00%
Add ingredients to high shear mixer in order listed with slow agitation. When fumed silica is wet, evacuate and increase agitation. After 15 minutes agitation under vacuum, sample. If necessary, agitate further for dispersion. Adjust toluene content for viscosity or clump.	
PROPERTIES:	
Solids	55% minimum
Viscosity	12 to 20 sec. at 40 psi
Slump (button)	0.20 maximum
Ash	12.4% maximum
Density	8.70 lb/gal
¹ Schnee-Morehead, Irving, TX ² Union Carbide, Danbury, CT ³ Cabot Corporation, Tuscola, IL	