

SM 760

ACRYLIC TERPOLYMER

S-M

TECH DATA

PRODUCT NAME:

SM 760 Crosslinking Acrylic Terpolymer.

MANUFACTURER:

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

PRODUCT DESCRIPTION:

SM 760 is a high solids, thermoplastic acrylic solution polymer that was developed specifically for formulating caulking compounds and sealants for architectural, industrial and residential applications requiring intermediate levels of joint movement.

BASIC USES:

Caulks and sealants formulated with SM 760 polymer are high solids, one part, solvent release type systems with excellent package stability. They have good adhesion to a wide variety of substrates, good pigment binding capabilities, and excellent resistance to ultraviolet light.

HANDLING:

Drums of SM 760 should be stored at 72°F or higher during cold weather to minimize handling problems due to high viscosity.

CLEAN UP:

Xylene may be used to assist in clean-up of equipment contaminated with residual SM 760.

SAFETY:

Xylene, the solvent in SM 760, 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 terpolymer itself is nontoxic. See the Material Safety Data Sheet for other information.

TYPICAL PROPERTIES	
Characteristic	Result
Density (lbs/gal) @ 100% Solids	9.03
Density (lbs/gal) @ 85% Solids	8.7
Specific Gravity (25°C)	1.04
Molecular Weight (Wt. Avg.)	Typical 55,000
Molecular Weight (Number Avg.)	Typical 15,000
Appearance	Clear Solution
Color	Yellow-Amber
Flash Point (Cleveland Open Cup)	125°F
Shipping/DOT	Combustable Liquid
TLV (ACGIH, TWA)	100 ppm
Boiling Point (deg. F)	(Solvent) 280°F
Evaporation Rate	(Solvent) (BuAc=1) 0.75
Water Content, %	0.01
Odor	Aromatic Odor
Vapor Pressure (20°C)	9.5 mm Hg (Solvent)
Nonvolatiles (Percent)	82-84%
Solvent	Xylene
Viscosity, #5 @ 5 RPM, 77°F	250,000-300,000 cps
Acid Number	16

Based on composition, SM 760 is not expected to be acutely toxic via single oral or dermal exposure. It may be a mild to moderate skin, eye and/or respiratory irritant.

The polymeric portion of SM 760 is derived in part from acrylonitrile. However, the level of free acrylonitrile in this polymer is less than 10 ppm. Data has been developed which indicates that this product should result in workroom acrylonitrile air levels well below 1 ppm as long as the airborne concentration of the xylene solvent is controlled at its TWA of 100 ppm. Control of AN to below the OSHA action level of 1 ppm exempts your facility from the requirements of the OSHA Acrylonitrile Standard when handling these products.

PACKAGING:

SM 760 is available in bulk and in lined open head 55 gallon drums.

SHELF LIFE:

In a tightly closed original container, SM 760 has a shelf life of one year from date of manufacture. Some xylene evaporation can take place but the solids content can easily be adjusted if necessary.

7. 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 acknowledgment 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.

It shall be the sole responsibility of the user to determine the suitability of the Schnee-Morehead product or mate-

SUGGESTED SEALANT FORMULATION

Ingredient	(lbs./100 gal.)
Extender (Duramite or equivalent)	550.13
Thickener (Thixatrol ST)	50.52
SM 760	507.13
Adhesion Promoter (Silane Z-6030)	1.14
Xylene	76.55

Formulation Constants

Density, lbs./gal. @ 25°C	11.85
% Solids, by weight	86.27
Pigment/Binder Ratio	1.43/1

Prepared by mixing in a closed sigma mixer for one hour at ambient temperature with the order of addition as listed.

RAW MATERIAL SUPPLIERS:

Ingredient	Supplier
SM760	Schnee-Morehead, Irving, TX
Duramite	Cyprus Industrial Minerals, Englewood, CO
Thixatrol ST	NL Industries, Industrial Chemicals Division, Highstown, NJ
Silane Z-6030	Dow Corning Corporation, Midland, MI

TYPICAL PERFORMANCE PROPERTIES OF SM 760 BASED SEALANT¹ FORMULATION

Consistency (Seconds)	
Initial	5.0
2 wk. 50°C	6.0
4 wk. 50°C	7.0
Slump (Vertical)	
at 25°C/50% RH	0"
at 50°C	1/16"
Crack Resistance	
Slab	Exc.
Channel	Exc.
Tack Free Time	3 hrs.
Mechanical Properties	
Tensile Strength, maximum psi	8
% Recovery	14
% Elongation, at max. tensile strength	50
% Elongation, at break	353
Shore A Hardness	67
Dry Peel Adhesion² (lb./in.)	
Glass	10.0 C
Aluminum	10.0 C
Wet Peel Adhesion² (lb./in.)	
Glass	6.6 C
Aluminum	6.6 C

¹Sealant cured 3 weeks at 70°C.

²C = cohesive failure.

rial for each intended use and the user shall assume all risks and liability in connection with the use, or inability to use, the product or material.

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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**.

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