TECHNICAL DATA SHEET

'TWO-COMPONENT POLYSULPHIDE SEALANT FOR INSULATING GLASS'

APPLICATION FIELD

Thiover® is a polysulphide sealant especially formulated for insulating glass.

Thiover® is produced in different viscosities in order to suit the Individual requirements of the operator and of the equipment in use.

Thiover® is totally solvent free and can be used either for the production of single seal or dual seal Insulated glass units.

TECHNICAL CHARACTERISTICS

COLOUR
Part A (base): Ivory
Part B (catalyst): Black
Mixture (A+B): Anthracite

MIXING RATIO
Ratio by volume: 100:10
Ratio by weight: 100:9:5

POT LIFE
Standard 40 to 90 minutes.
Pot life is influenced by room conditions.

HARDENING TIME:
2 to 4 hours depending on pot life.

ADHESION:
Excellent on glass, aluminum, stainless steel, galvanized steel.
Peel strength 180° to glass with cohesive failure: 110/25 mm.
Application surface must be clean, dry and free from residue.

PHYSICAL - CHEMICAL CHARACTERISTICS

VISCOSITY (25°C / 77°F)	Part A (base) -Medium Viscosity -Low Viscosity Part B (catalyst)	 63000 ± 3000 [cPs] 53000 ± 3000 [cPs] 30000 ± 2000 [cPs]	*DIN 53019*
DENSITY (20°C / 68°F)	Part A (base) Part B (catalyst)	1.77 [gr/cm^3] 1.69 [gr/cm^3]	*DIN 53217*
FINAL HARDNESS	min. 50 [Shore A]		*EN 1279/6*
MOISTURE VAPOR TRANSMISSION	8.0 [gr/m^2 - 24hrs - 2mm]		*EN 1279/4*
GAS PERMEATION ON FILMS	5.80 ± 0.63 x 10^{-3} [gr/m^2 hrs]		*EN 1279/4*
ELONGATION TO FAILURE	approx. 0.50 [%]		*EN 1279/4*
COHESIVE FAILURE	approx. 0.9 [MPa]		*EN 1279/4*
VOLATILE CONTENT (70°C / 158°F) **Part A & B**	Max. 0.77 [%]		*EN 1279/6*
STORAGE	9 months in the original containers. It is recommended to store Thiover® in dry and fresh rooms at a temperature between +10°C (50°F) and +30°C (86°F)		

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SURFACE PREPARATION

GLASS - To achieve good adhesion, the glass surface must be clean and free of any residue.
Your glass supplier can verify proper cleaning specifications.

SPACER - To achieve good adhesion, the spacer surface must be clean and free of any residue.

MIXING INSTRUCTIONS

Correct proportions of base and catalyst are extremely important to achieve the best results.
Please review with a Fenzi Technical Representative to ensure ratio of pumping equipment at correct settings.
Given the various dispensing systems available, the Thiover® brand polysulphide should be metered to deliver base and catalyst at a ratio of 100:10 by volume and 100: 9.5 by weight.

PRODUCT CLASSIFICATION

Fenzi Thiover® is not classified as dangerous

TEMPERATURE INFLUENCE ON VISCOSITY

The viscosity of a fluid is the resistance of its particles to flow. In most liquids the viscosity is influenced by various factors, amongst which temperature has a key role.
Viscosity values on our TDS are given based on the standard temperature at 25ºC (77ºF)
While the viscosity changes due to temperature of the base material, the effect on the final mixture is negligible.
It is recommended, that the material be stored in temperatures as close to those given above, for optimal applications characteristics.

PACKING - STEEL DRUMS

BASE	42.07 Imp. Gal (50.5 US Gal)
CATALYST	4.18 Imp. Gal (5.05 US Gal)
DRUM KITS	46.25 Imp. Gal (55.55 US Gal)

EQUIPMENT SERVICES

Fenzi North America will provide technical services. This includes assistance on dispensing equipment as well as literature for the Thiover® brand polysulphide. MSDS forms available through the Fenzi North America sales office.

PRODUCTION PLANT CONTROL

The Fenzi laboratory can analyze a customer's extruded mixed material to establish the final mix ratio. A fast and extremely precise determination of the catalyst can be made, using a modern technique based on X-ray fluorescence. Doing so, allows the sample analyzed to have the ratio verified - ensuring equipment used to dispense the material is accurate to correct ratio for Thiover® polysulphide.

GLAZING PRACTICE

Finished IG units should be glazed in accordance with industry recognized standards - such as IGMA, ASTM, CWDMA or WDMA, guidelines for the use of various tapes, setting blocks and sealants.

Thiover® made units typically are intended for use in both residential and commercial applications.

Thiover® brand polysulphide is found to be compatible with most glazing materials used in the market.

However, verification of the particular type of material to be used should be done through your Fenzi representative.

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