

Arathane® 5753TX

Thickener for use with Arathane® 5753 A/B (LV)

Arathane® 5753TX is a thixotropic version of the standard Arathane® 5753B(LV) and is designed to allow the user to thicken Arathane® 5753 A/B(LV) system from a liquid to a paste consistency. A black pigmented version of 5753TX is also available for use with Arathane 5753A/B40 which is a black pigmented version of the standard Arathane 5753A/B(LV) system.

The use of Arathane® 5753TX with Arathane® 5753A/B(LV) is often helpful in applications such as staking, vibration dampening, damming, and for bonding on vertical surfaces. Arathane® 5753TX is made with a hydrophobic, treated grade of fumed silica. For those who prefer less thixotropy or a different type of fumed silica, we also offer Arathane® 5753TX2 which is made with a hydrophilic, untreated fumed silica. See Arathane 5753TX2's technical datasheet for more information.

SUGGESTED APPLICATIONS:

- Non-sagging / non-slumping bonding or sealing applications.
- For controlled flow especially during heat curing and while under vacuum

HANDLING PROPERTIES	VALUE	TEST METHOD
Arathane® 5753TX		
Visual Appearance	Opaque, white paste	
Density	0.90 g/cm ³	ASTM E-201
Viscosity	>1 million cps	ASTM D-2393
Flash Point	>200°C	ASTM D-92
Solids / Non-volatile Content	100%	
Shelf-life	6 months from date of shipment	

MIX RATIOS, VISCOSITIES AND CURED HARDNESSES:

Arathane® 5753B(LV)	100	90	80	67	60	50	35	25	0
Arathane® 5753TX	0	10	20	33	40	50	65	75	100
Arathane® 5753A*	20	20	19.6 - 20	19.5	19.5	19	18.5-19	18.5	18*
*Mix ratio levels for the 5753A have been slightly increased from previous recommendation based on our experience and testing. This is intended to reduce the chance for tackiness and other curing issues and to provide more consistent results. It is especially important for small unit packaging such as sem-kits and other specialty packaging where unequal amount of the components may be made available for the mixture because of the packaging design or where moisture may be able to compete to react with the part A.									
Viscosities using 5753TX at above ratios:									
Initial viscosity at 1 rpm	6,000	7,600	39,000	64,800	88,000	270,000	576,000	848,000	1,740,000
Initial viscosity at 10 rpm	6,050	7,140	16,080	25,280	31,200	64,500	134,000	194,000	345,600
Thixotropic Index (1rpm/10rpm)	0.99	1.06	2.43	2.56	2.82	4.19	4.30	4.37	5.03
Cured Shore A Hardness*	55	55	55	55 - 56	56	56	57	58	59

*Note: Shore A Hardness values reported are results from initial QC testing. Samples made with high levels of 5753TX may increase in Shore A Hardness over time. When re-tested 14 – 30 days after curing, the results may be higher due to reinforcing effect of the filler. This may be only a few Shore A points for as much as 10 -15 points for high levels of 5753TX

PROCESSING AND APPLICATION INSTRUCTIONS :

To use, weigh 5753B(LV) (if called for), 5753TX and then 5753A into a clean mixing container. Mixing containers should preferably be made of polypropylene, polyethylene, glass, or non-corroding metal. (Stainless steel, aluminum, etc.). Always use weighing equipment having accuracy that is ±1% or less of

the smallest quantity that you will be weighing. Blend all parts thoroughly by using a spatula or stirring stick for at least 2 minutes using a kneading motion. Scrape the bottom and sides of the mixing container carefully and frequently to produce a uniform mixture. Vacuum de-gassing after mixing may be helpful for best electrical and physical properties.

If you regularly use the same ratio of the 5753B(LV) and 5753TX, you can make a stable pre-blend of the 5753TX and 5753B(LV) in advance and then just use portions of the blended material as necessary with the 5753A. If stored in a tightly closed container away from moisture, the blended 5753B(LV)/5753TX combination will have a shelf-life of 6 months from the original ship date of the oldest component.

For best results, apply to clean, dry surfaces. For best adhesion, abrade the surface with a wire brush, scouring pad, steel wool or coarse sandpaper. After abrasion, clean the surface of any loose material and degrease with solvent or detergent to remove any contaminants. The material may then be applied with any suitable application method include brushes, spatulas, trowels, etc.

Curing schedules for mixture of Arathane® 5753 with the 5753TX are typically identical to those used for the Arathane 5753A/B(LV) system. Cured properties are also typically the same or very similar, with the exception of increased mechanical reinforcement (i.e., higher Shore A hardness, tensile strength, etc.) at higher concentration of the 5753TX. Please see the technical datasheet for the Arathane® 5753A/B(LV) and/or our Supplemental Processing Guide for the Arathane® 5753A/B(LV) for information about expected cured properties.

PACKAGING AVAILABLE:

This product is available in kits including all 3 components – Arathane 5753A, 5753B(LV), and 5753RX. The standard Quart kits has a total net weight of 875 grams with the proportions of 140g A / 441g B(LV) / 294g TX. An alternate proportioned kits with a total net weight of 1022 is also available with proportions of 140g A /441g B(LV) /441g TX.

The 5753TX can also be purchased separately from the 5753A& 5753B(LV) in pint containers (294 grams net weight) or in larger sizes by request.

Please call use with any special packaging requests or for information on custom kitting.

STORAGE GUIDELINES:

Store this product in a clean and dry environment in its tightly closed original container. Protect from extended exposure to temperatures below 15°C (59°F). Crystallization of the Arathane® 5753A may occur if the material is exposed to cold for extend periods. See the 5753A/B(LV) technical datasheet or the SP&S Supplemental Processing Guide for Arathane® 5753A/B(LV) for instructions on dealing with crystallized Arathane® 5753A.

HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE:

ARATHANE® 5753TX

WARNING! May cause eye irritation. Prolonged or repeated skin contact may cause irritation and may cause allergic skin reaction. Harmful if inhaled. Harmful if swallowed. Work in a well-ventilated area and use clean, dry tools for mixing and applying. For two component systems, combine the resin and hardener

according to mix ratio. Mix together thoroughly and use immediately after mixing. Material temperature should not be below 65°F (18°C) when mixing.

FIRST AID

In case of contact:

Skin – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

Eyes – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

Inhalation - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Ingestion - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER:

IMPORTANT: The following supersedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential, or indirect damages for alleged negligence, breach of warranty, strict liability, tort, or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

*Arathane[®] is a registered trademark of Huntsman Advanced Materials and is used with permission. SP&S is the Authorized Manufacturer of Arathane[®] 5753TX and the master distributor and authorized final packager for Arathane[®] 5753A/B(LV).

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