Technical data sheet

# A 302 HF ADHESIVE PUTTY

## DESCRIPTION:

A 302 HF is light blue putty formulated from unsaturated polyesters resins and glass fibers that gel and cure at room temperature by adding MEKP catalyst. This material may be used to bond different substrates. It is excellent putty for sanitary, transportation, nautical and general purpose applications.

## FEATURES AND BENEFITS:

- A 302 HF is easily applied by using an appropriate tool such as spatula or a trowel.
- Formulated to use with MEKP catalyst.
- Excellent adhesion of fibreglass to fiberglass and wood to fiberglass.
- Fast gel time and excellent cure
- Color indicator to ensure proper catalyst mix.

## TYPICAL PROPERTIES (at 25°C or 77°F):

These values may or may not be manufacturing control criteria; they are listed for a reference guide only. Particular batches will not conform exactly to the numbers listed because storage condition, temperature changes, age, testing equipment (type and procedure) can each have a significant effect on the test results. Putty with properties outside of these values can perform acceptably.

| Test | |
|---|---|
| Styrene Content, solids and more see MSDS | |
| Viscosity Brookfield Spindle T-F @ 5 rpm | 1500000 – 2 000 000 cps |
| Thixotropic Index | > 4 |
| Gel Time /1,25% MEC-EX* | 12 - 18 minutes |
| Uncatalysed Color | light blue |

*in 100 g mass

## CURE:

It is recommended that gel time be checked in the customer's plant because age, temperature, humidity and catalyst will produce varied gel times. All data referencing gel or cure refers specifically to United Initiators MEC-EX @ 1,25%. Arkema DDM-9 catalyst, Norox MEKP-9H and Akzo Nobel CADOX D50 expected to yield similar performance. MEKP-925 catalyst of United Initiators, Akzo Nobel Cadox L-50A, Arkema DHD-9 and HP-90 can give a fast gel time and cure.The catalyst level should not exceed 2,0 % and not below 1,0% if use at room temperature. Recommended rate is 1.25% and optimal temperature is 25°C (77°F). Do not use under 19°C (66°F).

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When the part reaches ultimate cure depends upon time, temperature and satisfactory catalization. Too much or too little catalyst can result in permanent under-cure, which cannot be overcome. Practically speaking, serviceable cure time will range from overnight from a week and occasionally longer due to circumstances. Small, properly catalyzed, thin laminates that do not exotherm and do not receive external heat may take months or years to achieve ultimate physicals. Sufficient external heat can reduce the cure time to less than a day.

## STORAGE LIMITATIONS :

Polyester resin has a shelf life of 90 days from date of manufacture when stored at 22° (73°F) or below, in a closed, factory sealed, opaque container, and out of direct sunlight. Fast cure resin (gel times less than 9.0 minutes) is stable for 45 days. The shelf life is cut in half for every 11°C (20°F) over 22°C ( 73°F). Totes of product can have even shorter shelf life (66.0% of that for drums).

## SHIPPING:

Shipment is normally in lined 205 liters (45 imp. gallon) and/or 20 liters (4.4 imp. gallon) containers.

## DISPOSAL:

Dispose of in accordance with local and provincial regulations. Do not incinerate closed containers. Incinerate in approved facilities only.

## Safety information

All sales of products manufactured by Polynt Composites Canada Inc. and described herein, are made solely on condition that Polynt's customers comply with applicable health and safety laws, regulations and orders relating to the handling of our products in the workplace. Before using, read the following information, and both the product label, and Material Safety Data Sheet pertaining to each product.Most products contain styrene. Styrene can cause eye, skin and respiratory tract irritation. Avoid contact with eyes, skin and clothing. Impermeable gloves, safety eyewear and protective clothing should be worn during use to avoid skin and eye contact. Wash thoroughly after use. Styrene is a solvent and may be harmful if inhaled. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Extended exposure to styrene at concentrations above the recommended exposure limits may cause central nervous system depression causing dizziness, headaches or nausea and, if overexposure is continued indefinitely, loss of consciousness, liver and kidney damage.

Do not ingest or breathe vapor, spray mists or dusts caused by applying, sanding, grinding and sawing products. Wear an appropriate NIOSH/MSHA approved and properly fitted respirator during application and use of these products until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapors, mists and dusts are below applicable exposure limits. Follow respirator manufacturer's directions for respirator use. The International Agency for Research on Cancer (IARC) reclassified styrene as Group 2B, "possibly carcinogenic to humans." This revised classification was not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and published the following statement: Recently published studies tracing 50,000 workers exposed to high occupational levels of

styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene.

Styrene is classified by OSHA and the Department of Transportation as a flammable liquid. Flammable products should be kept away from heat, sparks, and flame. Lighting and other electrical systems in the work place should be vapor-proof and protected from breakage. Vapors from styrene may cause flash fire. Styrene vapors are heavier than air and may concentrate in the lower levels of molds and the work area. General clean air dilution or local exhaust ventilation should be provided in volume and pattern to keep vapors well below the lower explosion limit and all air contaminants (vapor, mists and dusts) below the current permissible exposure limits in the mixing, application, curing and repair areas.

Most polyester/vinylester products contain hazardous ingredients. To determine the hazardous ingredients present, their applicable exposure limits and other safety information, read the Safety Data Sheet for each product (identified by product identifier) before using. If unavailable, these can be obtained from your Polynt representative or from: Polynt Composites Canada Inc. 905 495-0606

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FOR INDUSTRIAL USE AND PROFESSIONAL APPLICATION ONLY.
KEEP OUT OF REACH OF CHILDREN.

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Disclaimer and limitation of liability

The products sold hereunder shall meet seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to buyer. Buyer must give seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the product code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever occurs first.

The warranty described herein shall be in lieu of any other warranty, express or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose, there are no warranties that extend beyond the description on the face hereof.

The buyer's sole and exclusive remedy against seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by seller. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available to the buyer.

The sole purpose of this exclusive remedy shall be to provide buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as seller is willing and able to replace the defective products or refund the purchase price.

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of the material for the use contemplated, the manner of use and whether the suggested use infringes any patents is the sole responsibility of the buyer.