

## Product Data Sheet: Nida Tack NT 100

**DESCRIPTION:** NT 100 is proprietary (Patent Pending) reactive thermoplastic based polymer spray adhesive that is design to bond dry reinforcements and composite matrices including cores in place prior to incorporating resin through various processes like resin infusion, RTM, VARTM, RTM Light or fiberglass pre-forms. NT 100 is uniquely formulated to be compatible, with most resin systems mainly polyester, vinyl ester and epoxy resins<sup>1,2</sup>. The product is solvent based and after spraying builds tack within seconds and will be tack free in approximately 2-3 minutes<sup>1</sup>. Packaging options include pint sample, quart and 5 gallon or 55 gallon containers. Aerosol packaging options will be considered upon request.

**PRODUCT HIGHLIGHTS:**

- Compatible with VE, Polyester and Epoxy<sup>2</sup>
- Tack time 15-20 sec, tack free 2-3 minutes<sup>1</sup>
- Not affected by ambient temperature/humidity<sup>1</sup>
- Solvent based, non-aerosol package
- Very effective tack mechanism

**PRODUCT BENEFITS:**

- Little to no change in laminate shear properties with typical usage<sup>2</sup>
- Mechanically bonds or holds most types of reinforcements
- Maintains position of reinforcement for days without sagging
- Easy to clean up with most solvents, easy to dispose containers
- Use less than competitive brands

**TYPICAL CHARACTERISTICS @ 75° F (24° C):**

Tack STT:	2-3 minutes
VOC g/l:	544.73g/l 4.54lb/gal
Unit weight, lb/gallon:	7.54

**APPLICATION:** Follow instructions provided or contact your Nida Core representative for proper types of spray equipment and suitable substrates prior to starting the spray tack application. Open tack time is the approximate time after spray application until the product dries tack free. The user should only apply to an area that reinforcements will be adhered within corresponding tack time. Tack free time is dependant on ambient temperature and humidity conditions present at time of application. Product does not settle and it is not necessary to mix before use. It is suggested that user transfer to a pressure pot spray gun for easy spray applications. Typically applications of less than 10-30 gsm are adequate to sufficiently hold reinforcements and independent tests have not shown any measurable loss in physical properties with either polyester, vinyl ester or epoxy resins<sup>1,2</sup>. It is strongly recommended that the user test on their surfaces, gelcoats or fabric reinforcements to determine suitability with substrates, resin and process. User should further substantiate with physical testing representative of use.

**Important Notes: Read Material Safety Data Sheet before handling or using this product:.**

1. The tack time is dependant on temperature, colder temperature will increase tack time and warmer conditions will decrease tack time. Resin solubility of NT 100 and subsequent wetting of reinforcements are also affected by temperature, colder temperatures will slow wet out of reinforcements and should be avoided the best results are achieved with material temperatures > 75°F.
2. Independent testing has shown little to no appreciable physical properties loss in bending shear testing at higher than normal applications (< 90 gsm) on VE and Polyester laminates. Using a typical infusion grade Bis A epoxy testing also has shown no appreciable loss in physical properties at normal application levels < 30gsm.

**Competitive Spray Tack**  
B2- Nominal level- Acceptable  
B3- 5 times Nominal Not Acceptable

**Nida Tack**  
A2- Nominal level Acceptable  
A3- 5 times Nominal Acceptable

**Nida Tack Epoxy Laminate**  
C2 -Nominal level Acceptable

