



The Bradley Group of Companies  
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## TECHNICAL DATA SHEET

### Bradley 50 Thread Coating with Medium Strength

**Description:** Bradley 50 is a varnish-like, microencapsulated system on acrylate base, the dry film being non-tacky, solvent-free and harmless from the physiological and toxicological point of view. Its characteristics as a sealing and locking element with medium strength become effective on assembly, after the capsules are ruptured by shear and/or pressure stress.

**Application:** Bradley 50 is used for all threaded combinations which predominantly request a sealing effect. The product can be applied on screws, studs and all other threaded parts as well as on thread plugs and pipe threads. Due to the low strength easy disassembly (with normal tools) of the polymerized-connection is possible.

#### **Properties:**

- Forms a dry and non-tacky film
- Threaded parts can be pre-applied longtime before assembly
- Non-toxic neither coated nor assembled
- Fully automatic application
- Thread friction values are practically not altered
- Prevents fretting on assembly
- Quick curing
- No post-curing even on repeated temperature treatment
- Good chemical resistance
- Seals against pressure up to 3625 psi
- Avoids corrosion in the threaded connection

#### **Physical Data:**

Product color	Green
Thread friction value	0,12-0.14
Curing Time	3 Hours
Minimum curing temperature	-20 ° C
Prevailing-In torques on assembly	0,3 – 0,5 Nm
Strength without preloading	
Break-away torque	Min. 8 Nm
Strength under preloading	
Break-loose/seating torque	<1,1
Maximum prevailing-out torques on disassembly	<break-away torque
Temperature range	-50 °C to 120 °C
Shelf-Life	4 Years at room temperature

All values apply to screws M10 DIN 933-8.8 plain finish