# WINKEL PRO 5W77 MEDIUM STRENGTH THREAD SEALANT



**Technical Bulletin** 

WINKEL PRO 5W77 seals conical/cylindrical pipe thread connections up to R 3", e.g. sprinkler installations and gas pipeline systems. Curing also proceeds at low temperatures (< 0°C). Resolvable with tools. The product curing (polymerisation) is carried out under the exclusion of atmospheric oxygen (anaerobic) and the catalytic action of the metal (metal contact). Compared to conventional anaerobic adhesives, the GREEN LINE products are completely free of hazardous-labeling and thus offer the user a clear added value. Moreover, non-hazardous products have a better shelf-life and a high temperature resistance up to +180°C.

#### **Technical properties uncured product**

| Chemical base:                  | Methacrylate, anaerobic resin |
|---------------------------------|-------------------------------|
| Colour:                         | yellow, fluorescent           |
| Viscosity <sup>1)</sup> [mPas]: | 15000-30000                   |
| Density <sup>2)</sup> [g/ml]    | 1,05-1,09                     |
| Max. clearance:                 | M80                           |
| Flashpoint <sup>3)</sup> [°C]:  | >+100                         |
| Application temperature [°C]:   | optimal at +23                |

1) At 25 °C, Brookfield viscometer

At 25 C, Blockleid Visconleier
Measured according to DIN 53217, part 2 density sphere model 475/III

3) Measured according to DIN 53217,

## Technical properties hardened product

| Breakaway torque [Nm]:  | 25-35       |  |
|-------------------------|-------------|--|
| Prevailing torque [Nm]: | 15-25       |  |
| Temperature range [°C]: | -55 to +180 |  |
| Max. gap filling [mm]:  | 0,35        |  |

#### Cured\*

| Handling cure time [min]: | 5-15  |  |
|---------------------------|-------|--|
| Functional cure time [h]: | 3-6   |  |
| Final strength after [h]: | 12-24 |  |

### Storage & Durability

The shelf life is, at the optimum storage temperature of +5°C to +23°C in the closed original container, a maximum of 24 months. A higher storage temperature leads to a significantly lower durability. The storage temperature must not fall below +5°C.

#### Information about application

This product is not suitable for metal-plastic couplings and oxygen facilities as well as for the sealing of basic products or systems with strong oxidizing acids. Use only on standard metal threads. Surface must be clean and free of grease. For this, use degreaser agent WINKEL PRO FAST CLEANER. Apply product to fill the gap completely (male and female parts), assembly parts and shut completely. A bland or superficial closure may cause leakage over time. Don't move after tightening. Before operating the system wait for 24 hours to allow complete curing time. In case of serial products lock the joint with a pipe wrench to avoid breaking the previous film in its formative stages. In case of passive surfaces and/or low temperature a fast cure can be obtained using WINKEL PRO Anaerobic Activator. Consult the MSDS before use. By usage of an activator the curing values may drop by 15%.

| Art. Nr. : | Packaging: |
|------------|------------|
| 20403      | 50 ml      |
| 20404      | 250 ml     |
| 20405      | 1 L        |

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