

# EXTERNAL SEALANTS



## Product description

The external sealants from the Andre Industrial product range are designed to seal the projectile and primer from the outside. After the projectile is inserted, the annular gaps between the bullet and the case mouth are sealed using an anaerobic, UV-curing adhesive.

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## Key Considerations for Selecting the Ideal ammunition external sealant:

When selecting the right sealant, there are critical criteria that are essential for optimal sealing of the projectile. There is a surface tension present between the different metal surfaces, which significantly affects the penetration of the sealant. Therefore, there are various sealant options that differ in the following ways:

1. The adhesive strength and the resulting bullet pull-out strength according to Nato AEP-97 (see diagram), which in turn affects the brittleness of the adhesive.
2. The viscosity and its associated property of better penetration into the gap. Smaller calibers, such as 5.56mm, require adhesives with lower viscosity to ensure complete sealing.
3. The surface tension of the different materials of the projectile and casing, as well as the cleanliness of the casings. In some cases, this surface tension must be broken to ensure uniform penetration of the adhesive (f.e. model AS90455, specifically designed for 0.50 BMG ammunition).

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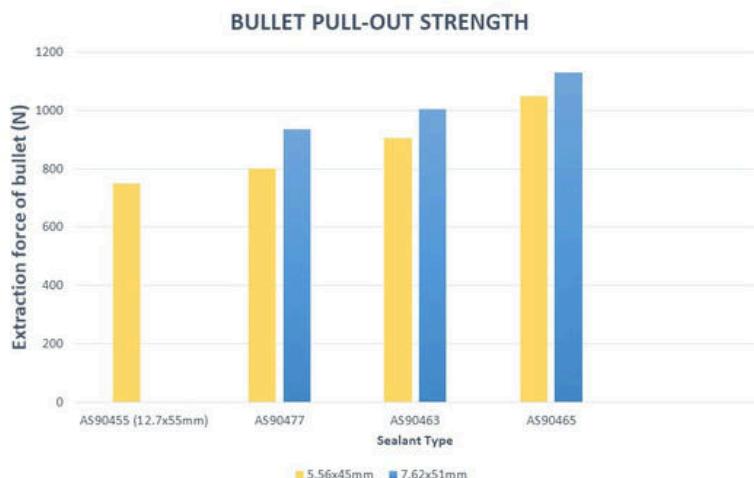
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## Technical data

Colours:	red, green, blue, clear
Fluorescent:	Yes, blue under UV light for optical control
Drying:	anaerobic + UV-curing (365nm)
Drying time:	2-3 sec (5W/cm <sup>2</sup> LED lamp)
Anaerobic fixture time:	< 2 min (brass)
UV tack free time:	< 3 sec
Full strength time:	18 hours
Viscosity:	5-15 cP (mPas)
Surface tension:	26-29 mN/m
Temperature range:	-55 to 210°C (-65 to 410°F)
Specific gravity:	1.04
Hardness, Shore A	
ASTM D2240:	27-64



The following table will help you find the right adhesive for your application.



## Special advices

Safety instruction: see material safety data sheet (MSDS)  
 Storage: when stored dry and cool, 1 year, closed drums longer

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