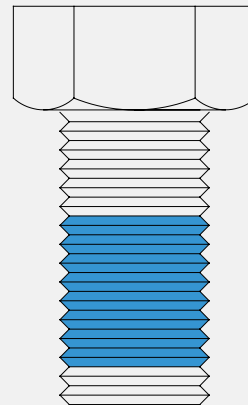


# TECNOLOGIC® 15

## Long-lasting Sealing Strength

Water based sealant system mixed with technologically advanced resins suitable on all types of metal and the majority of plastics, guaranteeing a strong resistance to pressure.

The water-based TECNOLOGIC® 15 reduces the environmental impact that the extensive use of solvents is having on our planet.



## GENERAL DESCRIPTION

Chemical type	Acrylic resins
Solvent base	H2O
Appearance	Light Blue - customizable on demand
Viscosity	Low
Application	Sealant
Local distribution	360°

TECNOLOGIC® 15 prevents the leakage of oils, gas and all kinds of liquids through threaded fasteners.

TECNOLOGIC® 15 covers the mechanical, physical, functional, environmental, regulatory and durability requirements.

TECNOLOGIC® 15 allows an immediate and powerful pressurized seal effect even in extreme conditions and excellent chemical resistance.

TECNOLOGIC® 15 is applied by means of controlled deposit using a special system studied and designed by TECNOLOGIC 3®.

## INDUSTRIAL AND SECTOR OF USE

The coating can be used in all kinds of assembly procedures, particularly for serial production. Actual main areas of application are automotive industry, electronics, motorcycles, household appliances, office machines, computer industry, electric motors and batteries, robotics and assembling industries, earthmoving and excavating machinery and constructions - farming industry - energetic industries - sportive, furniture and fixture sectors.

## TECHNICAL DATA PERFORMANCE

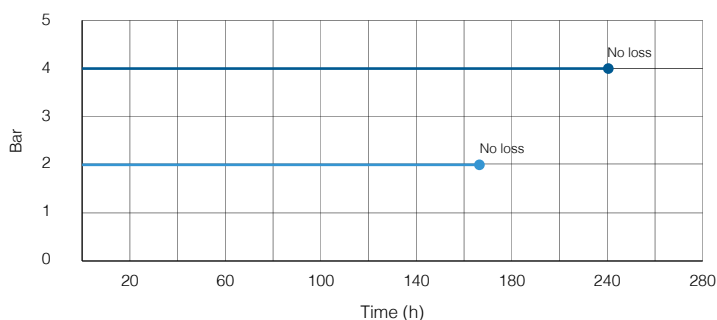
<b>Response Time</b>	Instantaneous
<b>Operating temperature range</b>	min -55°C max 200°C (min -67°F max 392°F)
<b>Coefficient of friction (CoF)</b>	0,10÷0,13

<b>Prevailing torque*</b>	< 2 Nm
<b>Pressure</b> [Chart 1: Leak tightness test in extreme thread combination conditions]	Prevailing-On Torque 2.0-3.5 Nm  Sealing properties at RT in air Threads  - Cylindrical/Cylindrical: < 15 bar (216psi)  - Cylindrical/Conical: < 50 bar (720psi)
<b>Resistance to chemicals</b> [Chart 2-3: Temperature & Chemical Resistance]	Generic lubricants, fuels, hydraulic fluids, oils and most solvent
<b>Storage</b>	Max 4 years T+5°C T+28°C kept in a dry place

\*Values for the use of hexagonal headed screws, M 10 in, class 10.9, with normal finish. On Fastener lubricated, with lubricant integrated, and/or added, needs test before the application. They can be used on all types of external and internal threads, with suitable tolerance e.g. 6g-6H Unless otherwise expressly required by the customer, TECNOLOGIC 3® applies TECNOLOGIC® 15 in line with the DIN 267 p27.

## Resistance to fluids and pressure after aging

see Table A and Table B below



a) cyclic aging tests in fluids with pressure and without pressure, screw M8x1,25 uncoated ISO 4017

value "loosening torque" Standard DIN 267 p.27 without preloaded room temperature after aging fluids

Pressure	Temperature	Duration	Result
2 bar	150°C (300°F) per 6h -30°C (-22°F) per 6h	240 h	no loss of seal

b) cyclic aging tests with constant pressure and fluid temperatures  
screw M8x1,25 uncoated ISO 4017

Pressure	Temperature	Duration	Result
4 bar	150°C (300°F)	168 h	no loss of seal

#### Leak Tightness test (VW-TL195)

Test medium: water at room temperature

Test pressure: >1MPa over-pressure

Installation method: floating (without prestressing force)

Thread: pitch diameter, see Table 2 (maximum dimension)

Requirement: Water intake on the opposite site of the coating exposed to water pressure must not be detectable within a 5 mi

Thread	Screw-in torque (Nm)	Pitch diameter (mm) (screw-in torque test)
M10 x 1,25	4 to 10	9,31 ± 0,02

Minor diameter (mm)	Maximum dimension of pitch diameter (mm)	Minimum height of test nut (mm)
8,80 ± 0,02	9,33 ± 0,02	7,64

## MANUFACTURER SPECS

TECNOLOGIC® 15 satisfies and goes beyond the technical specifications and requirements of the following OEM's:

Stellantis, Maserati, Iveco, Magneti Marelli, Ferrari, WM Motoril, VW

Note: the safety information can be found in the product safety schedule.

The information and technical data provided in this TDS, including advice and recommendations for the use and application of the product, are based on the knowledge and experience of the producer at the date of this TDS and are therefore purely indicative.

The product has a variety of applications that are outside the producer's control, as well as the conditions of use of the product in different environments cannot be foreseen and considered by the producer.

Product application should therefore not be started without prior independent tests and/or studies and adequacy evaluations by the customer.

For these reasons, the accuracy and exhaustiveness of the tests performed cannot be guaranteed by Tecnologic 3 S.r.l., which therefore expressly disclaims any liability deriving from the use of the product or the technical information provided herein.

The technical information provided in this document only refers to the product described and the use indicated and is not applicable if the product is used in combination with other materials or in other processes. The selection of unsuitable products and materials for use in combination with Tecnologic 3 S.r.l.'s product may cause damage and injury, therefore it is the customer's obligation to select suitable, adequate and compatible products, raw materials, components to be used in combination with Tecnologic 3 S.r.l.'s product.

The customer must take all necessary precautions because he is the exclusively responsible for goods and/or persons regarding any dangers that may arise from the use of the product.

The information and data contained in this document are subject to amendment without prior producer's notice.

Tecnologic 3 S.r.l. accepts no liability for any direct, indirect, or accidental damage resulting from misreading, misinterpretation or misusing of the information contained herein.

## PERFORMANCE ADVANTAGES

- Immediate and powerful pressurized seal
- Low thread friction value and excellent resistance on liquids
- Prevent Loosening
- Position and size as per requirements
- Can be applied to either external and internal thread parts
- Outstanding metal to metal and metal to plastics properties

## CUSTOMER BENEFITS

- Standardized application to reduce assembling time and processes
- Pre-applied sealant compounds at the point of assembly
- Replace all other type of sealant agents
- Eco-friendly Water-based solution
- Solvent free and dry to the touch
- Physiological and toxicological not harmful
- Color simply identifies presence, strength and function