

# Technical Data Sheet

**61300 - EPOXY TB BT BLEU 5005**

Trade code: 61300

## GENERAL FEATURES

Thermosetting powder with epoxy resins cured with a fit hardener, suggested for polymerisation at low temperature (160°C).

The product forms a level hard film with good resistance to chemical agents, fuels, oils and mechanical damage.

This product have passed full tests of effect on cold potable water quality (BS 6920) and can be used in the manufacture of water fittings and water installations and in their assembly, connection, disconnection and repair.

The product is approved by the Water Regulations Advisory Scheme (WRAS) with approval number 1901543.

## APPLICATION

Due to its special content the product is particularly suggested for interior coating.

## ADVISED CYCLES

The surface to be coated must be cleaned from oils, grease or flash rust.

If particular resistance to corrosion or humidity is required, it is suggested the following pretreatment of the surface:

for steel	sand blasting or/and iron or zinc phosphatising
for galvanised steel and aluminium	chromatising

## HANDLING AND STORAGE

Store at temperatures lower than 30°C; higher temperatures may damage the product by causing undesired alterations or blobs.

Storage life in original package: 18 months.

## TECHNICAL DATA

Code	Int. Method	Range	Ref. Method
P/CL092	Calc. specific gravity(kg/l):	1.195 - 1.243	
P/CL120	Non volatile content(w/w)(%) 3h at 105 °C	100.0 - 100.0	UNI EN ISO 3251
P/CL125	Non volatile content(v/v)(%)	100.0 - 100.0	
P/CL143	1µm Theor.spread.rate (m2/kg):	805 - 837	
P/CL210	Water content (%)	0.0 - 0.0	
P/YC060	Particle size dist. <32µm (%)	46 - 48	
P/YC120	Particle size dist. <63µm (%)	83 - 85	
P/CC050	Gloss 60°	88.0 - 94.0	UNI EN ISO 2813:2014

## WAYS OF APPLICATION

Apply with guns with negative terminal (60/80KV) or triboelectric guns automatically or manually.

It is advised to apply the product in layers with the thickness of 60-80 microns and to stove at 160°C for 25 minutes.

For stoving the epoxy glossy BT products it is possible to use the following combinations of time and temperature:

10-15 minutes	180°C (temperature of the support)
15-22 minutes	170°C (temperature of the support)
20-30 minutes	160°C (temperature of the support)

For stoving use the given indications.

For the application on valves and fittings it is possible to apply the product at dry film thickness between 250 and 400 microns, using electrostatic guns or fluidized bed on pre-heated support.

## TECHNOLOGICAL FEATURES AND RESISTANCE TESTS

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### INVER SpA con Unico Socio

Via di Corticella, 205 - 40128 Bologna (BO) - ITALY  
Manufacturing and R&D Labs: Via Marconi 10/A - 40061 Minerbio (BO) ITALY  
Ph. +39 051 638 0411 - [www.inver.com](http://www.inver.com) - [inver@sherwin.com](mailto:inver@sherwin.com)  
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The support used	UNI sheet
Thickness	60 microns
Stoving	25 minutes at 160°C

The hardness test was carried out on zinc phosphatised steel.

Code	Int. Method	Range	Ref. Method
P/CM010	Buchholz indentation test :	more than 90	UNI EN ISO 2815
P/CM181	Pendulum-rocker hardness : Persoz pendulum	more than 300	UNI EN ISO 1522
P/CM040	Erichsen cupping test (mm):	more than 3	UNI EN ISO 1520
P/CM050	Direct impact test (cm.Kg):	more than 20	ASTM D 2794; ISO 6272-2:2002
P/CM170	Conical mandrel : Bend test	maximum 20mm	UNI EN ISO 6860
P/CM100	Crosscut adhesion (2mm)(GT):	00	UNI EN ISO 2409
P/CM190	Salt fog test :	1000 hours later - indentation along the cross of 3-6 mm	UNI ISO 9227
P/CM230	Resistance to humidity : (Humidity test)	500 hours later - no change	UNI EN ISO 6270-2:2005

### NOTE TO USER

The information contained in this document while based on evidence and reliable methods can not be considered exhaustive.

This information are current to the date of issuance of this data sheet, therefore is under user's responsibility to verify that the data provided on this sheet are current to the date of the product.

The user, under its own responsibility, shall respect all the existing provisions on hygiene and safety and shall verify every time the features and the specific and appropriate way to use the product, cause the respect of the provisions is not under producer's direct control.

The manufacturer does not guarantee nor assume any liability or responsibility for whatsoever harm that might result from a misuse of the product or for damages that have arisen after the product's distribution. In case of the necessity to re-coat the already polymerised 61300 with itself or other coating we suggest to sandpaper previously the surface to improve the intercoat adhesion, and to carry out a preliminary test, especially if a fired gas oven is used.