



# TECHNICAL DATA SHEET

The DPA process can begin as soon as 24 hours after the mortar application



#### Description:

Self-leveling hydraulic mortars of very high strength for commercial, industrial, and institutional applications, **S80PC / S80PC SP** are excellent for final finish flooring due to their high compressive strength and wear resistance. **S80PC / S80PC SP** are specially designed for the DPA system (Grinding, Polishing, and Brightening), achieving a high level of gloss depending on the applied process. **S80PC / S80PC SP** offer mineral-based formulations with special cements and high-performance additives that, when mixed with water, produce a self-leveling, shrinkage-free product suitable for thicknesses ranging from 1/4" to 1". **S80PC / S80PC SP** are available in different versions, colors, and finishes (micro-terrazos)

#### Key features:

- Easy to apply with good fluidity
- Support light traffic 2 to 3 hours after application (depending on thickness and weather conditions)
- Fast setting and very high strength

#### Uses:

Self-leveling final finish for different applications such as:

- Industrial production plants
- Textile factories
- Food processing facilities
- Department stores and supermarkets
- Shopping malls, hotels, and restaurants
- **Specially designed for final use (overlay) and mechanical polishing systems**
- **Suitable for vehicular traffic and common-weight forklifts with rubber wheels, minimum thickness of 1/2" evenly across the entire area at the time of application**
- **S80PC / S80PC SP must always be protected with an appropriate final sealer (anti-stain, shine, etc.)**

#### Packaging:

Bag of 55 lbs of beige or gray powder product

#### Technical References:

(Laboratory Test at 73.4°F)

Physical Appearance	Polvo beige o gris
Water quantity per 55 lb bag	1.00 gal
Working time <sup>1</sup>	≈ 20 minutes
Ready for light traffic at 1/4" <sup>2</sup>	2 to 3 hours
Drying time before starting polishing process <sup>2</sup>	6 to 12 hours
Compressive Strength at 28 days (ASTM C109)	13,199 PSI
Flexural Strength at 28 days (ASTM C348)	1,237 PSI
Adhesion Test at 28 days (ASTM C-1583)	3.57 Mpa
Reference time in Ford Cup No. 5 (viscosity)	2 min 33 sec
Shrinkage Test at 28 days (ASTM C-157)	0.041%

Nominal Thickness (inches)	Approximate Coverage (ft <sup>2</sup> )
1/4"	26.48
3/8"	17.65
15/32"	13.24
3/4"	8.82
1"	6.67

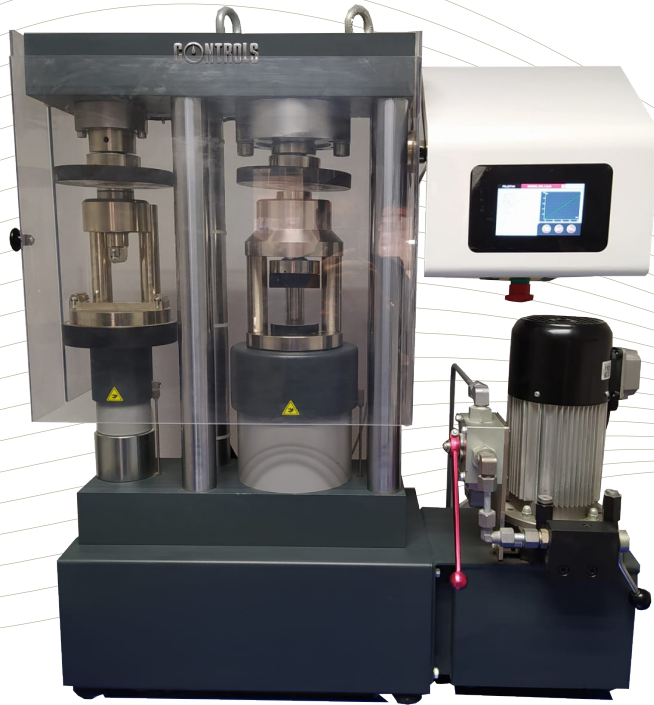
<sup>1</sup> According to laboratory tests, variable depending on site conditions

<sup>2</sup> Depending on the leveling thickness and site environmental conditions, always verify substrate moisture with measuring equipment, as drying times may vary

To determine material consumption, calculations are based on THEORETICAL data from laboratory tests. Actual on-site consumption may vary due to factors such as rough, irregular, cracked, or pitted surface conditions, porosity, warping, as well as applied thicknesses different from those specified, etc. Under no circumstances are we responsible for the quantity of materials requested, consumed, and ultimately applied.

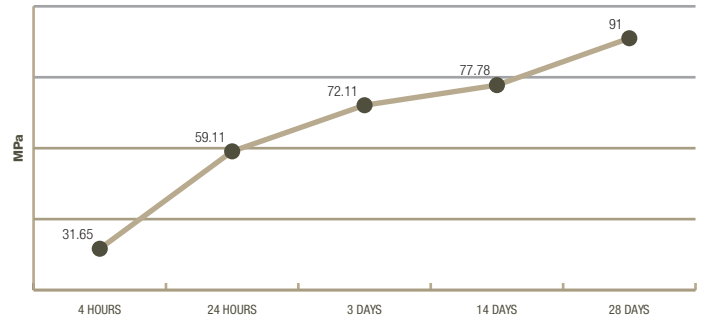
# Laboratory Tests

Tests carried out in our laboratory with the latest generation **CONTROLS PILOT PRO AUTOMATIC** compression / bending press



## Compressive Test

S80PC / S80PCSP

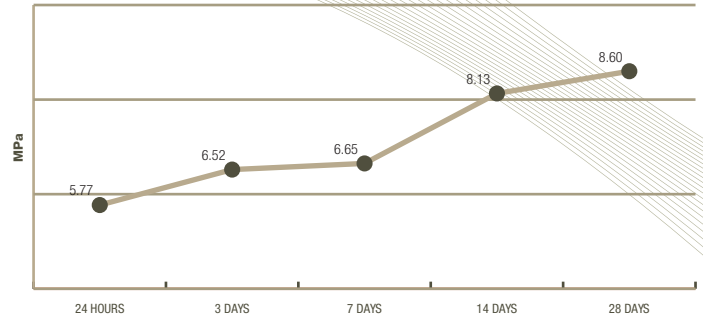


### Compression strenght:

4 hours	31.65 Mpa (≈ 4,594 PSI)
24 hours	59.11 Mpa (≈ 8,562PSI )
3 days	72.11 Mpa (≈ 10,454 PSI)
14 days	77.78 Mpa (≈ 11,278 PSI)
28 days	91.00 Mpa (≈ 13,199 PSI)

## Flexural Test

S80PC / S80PCSP



### Flexure strenght:

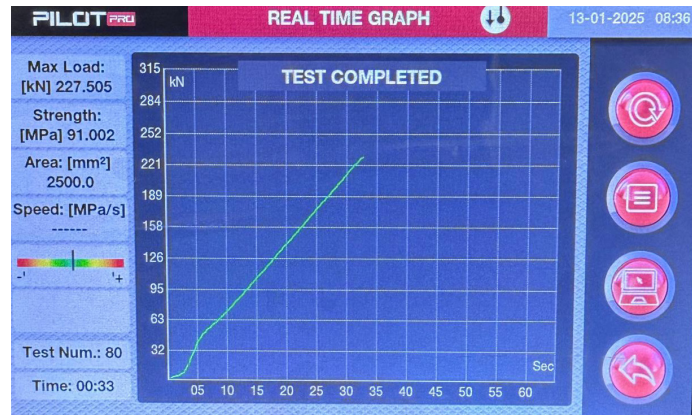
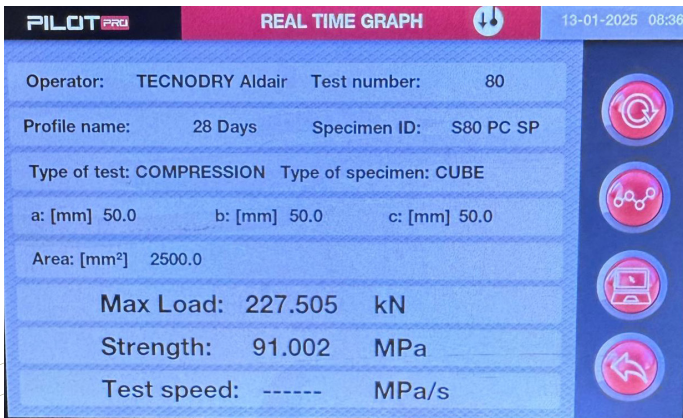
4 hours	4.46 Mpa (≈ 640 PSI)
24 hours	7.17 Mpa (≈ 1,038 PSI)
3 days	7.65 Mpa (≈ 1,109 PSI)
14 days	8.53 Mpa (≈ 1,237 PSI)

**CONTROLS**

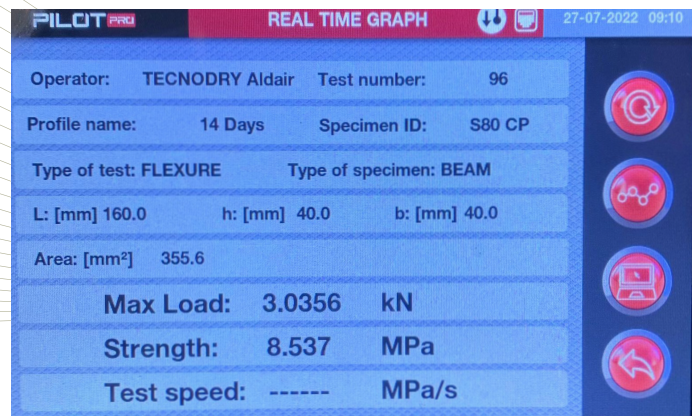
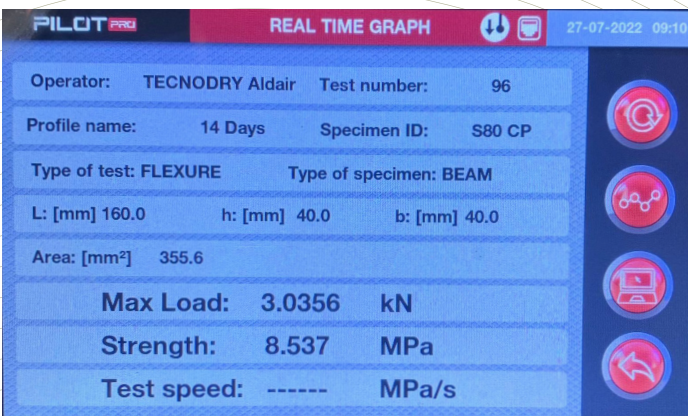
**PILOT PRU**

\*These screenshots correspond to internal tests conducted in our laboratory (1 MPa = 10.1972 kg/cm²)

## Compressive Strength



## Flexural Strength



## Measuring equipment from our laboratory



**Substrate preparation**

The slab, mezzanine or substrate to be leveled must be at least 28 days old or have reached its full strength and must be free of moisture (it is recommended to perform measurements with calibrated equipment and by qualified technical personnel)

**S80PC / S80PC SP** should be applied on clean, dry surfaces without cracks, fissures, or voids, which should be repaired if necessary. If control joints or construction joints exist, they must be properly treated to be covered with **S80PC / S80PC SP** or cut after drying. Do not install on substrates with negative water pressure.

Improper substrate preparation invalidates the warranty

Our primer sealer **P-346** or **P-GRIP Plus** must be applied to the existing substrate. Epoxy sealers with silica sand broadcast are the most recommended for industrial uses. The application of the sealer must follow the instructions in the corresponding technical datasheets

**Mixing and application:**

To achieve the expected results, proper mixing of the products is essential. It is recommended to use electric mixers or specialized pumping equipment

Mix the contents of the bags homogeneously with clean, fresh water (preferably at a temperature between 50 and 68°F). **Never add more water than indicated, and never mix our product with others**

Once the appropriate fluidity is achieved, the self-leveling mixture should be poured immediately in uniform sections over the designated area, based on the expected coverage and calculated thickness

Spread the mixture using a notched trowel or specialized smoothing trowel to control the desired thickness. If necessary, use a spiked roller repeatedly in both directions over the applied self-leveling mixture to remove trapped air. Using a specialized self-leveling smoother will help improve the final finish

**Very important: Absolutely avoid exposing the mortar to drafts and direct sunlight during the first 24 hours after application.**

**S80PC / S80PC SP** are manufactured with selected raw materials, but there may be slight variations in tone between production batches due to external factors (water quantity and temperature, use of pigments, etc.)

**Shelf life and storage:**

It has a shelf life of up to 12 months as long as it is sealed in its original bagging in a dry, cool place, protected from sunlight and moisture

**Special care:**

This product contains additives that do not pollute the environment, is not toxic or have organic components that degrade.

The use of protective equipment such as safety glasses, dust mask and latex gloves is recommended

**Keep out of the reach of children**

**Limited warranty:**

**TECNODRY** extends the warranty of quality of our products, based on the use of raw materials of the highest quality, ensuring its quality and behavior according to our specifications. **TECNODRY** is not responsible for failures that arise from errors in preparation, installation, finishing or failure of the surface in which it's applied. The information contained in this document has been provided in good faith based on the current knowledge and experience of **TECNODRY**. The information is valid exclusively for applications and uses to which reference is made. The information expressed herein does not exonerate the user from testing products and performances for the desired application and purpose

Our most up-to-date technical datasheets are always available on our websites:

[www.nivelantes.com](http://www.nivelantes.com)

[www.self-leveling.us](http://www.self-leveling.us)



**S80PC / S80PC SP have zero VOC (Volatile Organic Compounds) no smell or compounds irritating or harmful to people**

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