

# SOLIDONE PRONTO

READY TO USE MIXTURE FOR FAST DRYING SCREED  
(4\* DAYS) WITH CONTROLLED SHRINKAGE



## TECHNICAL FEATURES:

**Solidone Pronto** is a high resistance mixture of special cements, synthetic additives and selected aggregates for the preparation of sub-bases exempt from shrinkage classified according to EN 13813, such as CT C30-F6 A1 fl.

Thanks to its composition, mixed at the work site with water, it permits the combining of adherent and floating screed (also heated) up to 8 centimeters in depth, suited to receiving the laying of ceramic tiles after only 24\* hours and wooden and resilient floors after only 4\* days.

Professional use for interior and exteriors.



## FIELDS OF APPLICATION:

Preparation of mortars of adherent and floating concrete walkable in 12\* hours and dry (humidity <2%) in 4\* days.

Applicable also for renovation of old ceramic or natural stone floors for industrial environments subject to heavy or intense traffic.

## INSTRUCTIONS FOR USE AND CONTRAINDICATIONS:

The sub-bases must be mounted and rigid, and invulnerable to elastic oscillations and vibrations of the structure. They must also have completed their shrinkage phase and they must be perfectly dry, clean and free of oils.

Avoid the use of sub-bases subject to humidity seeping.

The adherent screed must have a minimum depth of 2 cm and a maximum of 8 cm and they require the preventative application of a binding grout prepared by carefully mixing **Solidone Pronto** with **Cemlatex 600** in equal parts.

On sub-bases in plaster or anhydrite, preventatively apply two coats of **Benferprim**.

In industrial environments or those over 3,5 centimeters in depth, immerse an electro-welded network into the screed and place dilation joints where necessary.

The floating screed must have a minimum depth of 4 cm and it must be divided using appropriately thick sheets of polyethylene overlapping for at least 30 cm and turned towards the walls for at least 10 cm, thus acting as a steam barrier. In case the screed must house heating elements for hot water, it is necessary that the total depth is at least six centimeters the three



centimeters above the tubes.

The tubes to be placed in the screed must then be covered with a flexible metallic grill.

Always provide for the setting of a perimeter joint in compressible material with a depth of at least 8-10 millimeters to be positioned in correspondence to possible columns.

#### **IMPORTANT:**

- Do not use on sub-bases that are subject to humidity seeping without providing an adequate barrier for the steam;

- Do not apply to sub-bases in gesso or anhydrite without having preventatively applied two coats of

#### **Benferprim;**

- Do not ever add water to re-mix the mortar when it begins to grip, and dispose of it immediately;

- For the creation of screed with a depth of more than 4 centimeters, it is always recommended to preventatively apply a layer of polyethylene sheets with a dividing and steam barrier function, as this will improve the quality of the application by impeding humidity seeping from the sub-base;

- Place dilation joints where necessary;

- In all cases it is indispensable to verify the residual

humidity level in the screed using a carbide hygrometer before proceeding to the laying of wooden or resilient floors (*see implementation*).

#### **PREPARATION OF THE MIXTURE:**

Thoroughly mix one sack of **Solidone Pronto** with 1,7 liters of water using an appropriate mechanical mixer for at least 3-4 minutes, until the mixture has a consistency similar to humid soil.

#### **APPLICATION:**

The mortar must be used in the 60\* minutes after mixing with the same technique as used for traditional screed. Once the leveling borders are prepared the mixture must be applied, compacted, propped and troweled with care. It is very important that the layer of screed applied over any tubes is not inferior to 3 centimeters and that a zinc-coated metallic grill has been placed. Place dilation joints where necessary (available on request).

If it is necessary to interrupt work for more than 24 hours, insert 30 centimeters long reinforcing iron sections approximately every 20-30 centimeters and when work starts again, apply a binding grout on the screed side prepared by mixing **Solidone Pronto**



with **Cemlatex 600** in equal parts.

Avoid application in areas with strong air currents as much as possible, as well as in the presence of freezing temperatures.

#### IMPLEMENTATION:

Approximately 6-10 hours after laying the screed, it is walkable and possible to smooth out. The laying of ceramic floors (residual humidity <6%) can be executed after 24\* hours, that of marble and stable natural stone (residual humidity <3%) after 48\* hours using adhesives from the **Benferflex** line with normal or rapid setting. For the laying of floors in wood or resilients (residual humidity <2%) it is necessary to wait 4\* days.

In all cases it is indispensable to verify the residual humidity level in the screed using a carbide hygrometer

before proceeding with the laying of floors.

Measurement of the residual humidity level in Solidone Pronto screed must be performed with a carbide hygrometer in several different sample areas of the screed with a reading after at least 2 minutes from the breaking of the vial. Normal electrical hygrometers do not always provide reliable results in these cases.

The electric hygrometer (very suitable for measuring humidity levels in wooden floors) measures humidity in screed by its electric conductivity, and is therefore influenced by many different parameters, such as the presence of metallic netting, tubes, high saline contents, special additives, hygroscopic materials and water that has been chemically semi-transformed into stable salts, which are not harmful for installation.

The same water is also detected by the carbide hygrometer, but only following a waiting period of more



than 2 minutes, such as 30 minutes, for example.

**CLEANING:**

Use water to clean the tools before the product begins to set.

**CONSUMPTION AND PACKAGES:**

The consumption of **Solidone Pronto** is 14-16 kg/m<sup>2</sup> for every centimeter of depth.

**Solidone Pronto** is packaged in poly-coated paper of 25 kg and in pallets of 1,500 kg.

**CONSERVATION:**

In its original closed package in a dry cool place.

**DURATION:**

12 months from the date listed on the package; in conformity with the directive 2003/53/CEE informing that this time expiration regards the efficiency of the reducing agent in respect to hydro-soluble Chrome VI.



**PRODUCT TECHNICAL DATA**

CLASSIFICATION ACCORDING TO EN 13813	CT C30 – F6 A1 fl
CONSISTENCY	POWDER
COLOUR	GREY
CONSERVATION	IN THE ORIGINAL CLOSED PACKAGE, IN A COOL DRY PLACE
DURATION: 12 MONTHS FROM THE DATE LISTED ON THE PACKAGE; IN CONFORMITY WITH THE DIRECTIVE EEC 2003/53 INFORMING THAT THIS TIME EXPIRATION REGARDS THE EFFICIENCY OF THE REDUCING AGENT IN RESPECT TO HYDRO-SOLUBLE CHROME VI.	
DANGER OF HARM	NO. POSSIBLE IRRITATION OF THE EYES AND SKIN FOR CONTACT DUE TO THE CEMENT CONTENT. ADEQUATE PROTECTION IS RECCOMENDED.
FLAMMABILITY	NO
APPARENT SPECIFIC GRAVITY	1.500 Kg/m <sup>3</sup>
CONSUMPTION	14-16 KG/m <sup>2</sup> FOR EVERY CM OF DEPTH
MIXING RATIO	1,7 LITERS OF WATER FOR 25 KG SACK
MIX CONSISTENCY	HUMID SOIL
APPLICATION TEMPERATURE	FROM + 5°C TO + 35°C
MIXTURE POT LIFE*	60 MINUTES
LIGHT PRACTICABILITY ON DRY SUPPORTS*	APPROXIMATELY 6 HOURS
LAYING CERAMIC TILES*	24 HOURS (SUBJECT TO RESIDUAL HUMIDITY CHECK < 6%)
LAYING MARBLE AND STABLE NATURAL STONE*	2 DAYS (SUBJECT TO RESIDUAL HUMIDITY CHECK < 3%)
LAYING WOOD AND RESILIENTS*	4 DAYS (SUBJECT TO RESIDUAL HUMIDITY CHECK < 2%)
FINAL HARDENING*	7 DAYS

**FINAL PERFORMANCES**

COMPRESSIVE STRENGTH AFTER 24 HOURS*	>10 N/mm <sup>2</sup>
COMPRESSIVE STRENGTH AFTER 2 DAYS*	>12 N/mm <sup>2</sup>
COMPRESSIVE STRENGTH AFTER 7 DAYS*	>24 N/mm <sup>2</sup>
COMPRESSIVE STRENGTH AFTER 28 DAYS*	>30 N/mm <sup>2</sup>
RESIDUAL HUMIDITY AT 24 HOURS*	< 6 %
RESIDUAL HUMIDITY AT 2 DAYS*	< 3 %
RESIDUAL HUMIDITY AT 4 DAYS*	< 2 %
RESISTANCE TO TEMPERATURE	FROM - 30°C TO + 90°C

\* data related to floating screed of 4 centimeters in depth obtained with fine gravel in granulometry and aged at 23° and 50% of r.h. In all cases it is indispensable to verify the residual humidity before proceeding to the laying.