

STABILSOLID 20.15

CHARACTERISTICS

Eco-compatible binding and consolidating mixture based on hydraulic lime and inorganic oxides and, specific for the stabilization of natural granular soil aggregates. The quality of the raw materials, carefully selected and mixed, in which the absence of radioactivity and the absence of additives of second materials coming from scraps of other industrial works in the production phase is certified, allows for binding to soil in different categories, allowing for a significant increase in mechanical performance of the treated materials, keeping the original appearance intact to ensure the lowest environmental impact possible. The addition of other hydraulic binders is not necessary. For the stabilization of silt-clay materials, it is necessary to use STABILSANA in the mixing water.

ECO-COMPATIBILITY CHARACTERISTICS OF THE PRODUCT

Possibility of using the natural aggregate on site	Yes
Possibility of recycling of the paving created* <small>(Compliant with the limit values laid down in Annex 3 to Ministerial Decree 05/02/98 integrated by Ministerial Decree no. 186 of 05/04/06)</small>	Yes
Possibility of disposal (non-hazardous waste) of the paving created* <small>(Compliant with the limit values laid down in Annex 3 to Ministerial Decree 05/02/98 integrated by Ministerial Decree no. 186 of 05/04/06)</small>	Yes
Resins, solvents and polymeric compounds	Absent
Hazardous substances	Absent
Eco-compatibility	Yes
Release of pollutants into the environment (Transfer test)*	No
Admission test for use in archaeological areas* <small>(Verification of aggression on antique mortars and plasters performed at the request of the Special Superintendency for the Archaeological Heritage of Rome - Ministry of National Heritage and Culture)</small>	Yes

*Tests performed by an accredited laboratory in accordance with the UNI CEI EN ISO IEC 17025 Standard (National System for Accreditation of Laboratories)

PHYSICAL CHARACTERISTICS OF THE PRODUCT

Appearance	Fine powder
Colour	White

MECHANICAL CHARACTERISTICS OF THE PRODUCT

Resistance	in days	2 days	7 days	28 days
		Compression* (UNI EN 196-1)	N/mm ²	36.9
Flexural* (UNI EN 196-1)	N/mm ²	7.06	10.63	10.96

*Tests performed by external laboratory (with Ministerial authorization auth. Art. 59 of Presidential Decree 06/06/2001 no. 380/2001)

COMPARATIVE TABLE - COMPRESSION RESISTANCE AT 7 AND 28 DAYS

CLASS A1-A AGGREGATE STABILIZATION STUDY WITH DIFFERENT DOSAGES OF CEMENT R 32.5 AND STABILSOLID 20.15

CONTENT OF STABILSOLID 20.15	kg/m ³	100	150
COMPRESSION AT 7 days [average of 3 specimens]	N/mm ²	12.12	16.16
COMPRESSION AT 28 days [average of 3 specimens]	N/mm ²	15.87	21.20
CONTENT OF CEMENT R 32.5	kg/m ³	100	150
COMPRESSION AT 7 days [average of 3 specimens]	N/mm ²	3.64	5.50
COMPRESSION AT 28 days [average of 3 specimens]	N/mm ²	6.28	9.69

note: test performed after maturation at 20° C and R.H.> 90% (update January 2017)

PACKAGE	Big bag 1,000 kg
CONSUMPTION	Indicative dosages Road foundations: 50-80 kg per 1 m ³ of aggregate Cycle and pedestrian paths or driveways: 120-150 kg per 1 m ³ of aggregate. Depending on the characteristics of the aggregate and the intended use of the paving, the amount of consolidating treatment is defined.
GENERAL INFORMATION	The product is not considered dangerous

FIELDS OF APPLICATION

Cycle paths, footpaths, rural roads, forest roads, paths in parks and gardens, cemetery roads, sports facilities, playgrounds, car parks, golf courses, squares, archaeological sites.

PREPARATION OF THE LAYING SURFACE

The road works, made with the Terra Solida technology, must be suitably prepared like any road in asphalt or concrete, in relation to the preparation of the foundation layer and the base, the slopes, the rainwater regulation, etc.

METHODS OF APPLICATION

To be mixed with natural granular soil aggregates. Recommended minimum thickness of the paving 10-12 cm. A specific document containing the description of the treatments is provided on request. Our technical staff is available to provide information for the best use of the product.

STORAGE

Store the product in its original packaging in a cool, dry place, protected from frost and direct sunlight. Protect from humidity. Non-flammable material. Storage life 6 months.

Inadequate storage of the product may result in loss of rheological performance.

WARNING

Please note that the user is required to take view of the latest Product Safety Data Sheet, containing chemical-physical and toxicological data, risk phases and other information in order to transport, use and dispose of the product and its packaging in complete safety. It must be recalled, however, that you must not dispose of the product and its packaging in the environment. The information contained in this technical data sheet, while referring to our best experience, is to be considered in any case indicative and therefore the user is recommended to carry out any test necessary to verify the suitability of product. The user is required to determine whether the product is suitable for the intended use and in any case assumes any responsibility arising from its use.

According to the specific requirements and to carry out preliminary tests, Terra Solida offers the possibility to carry out a specific study in its laboratory for the definition of the correct use of the product.

Promotec Srls reserves the right to make changes to this technical data sheet at any time.

MANUFACTURER/DISTRIBUTOR

TERRA SOLIDA is an exclusive brand of Promotec Srls.

Update of 01/01/2017.

