

TECHNICAL DATA SHEET

info@deffner-johann.de | +49 9723 9350-0

Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

Mortar for the filling of cracks in structural systems

SPECIAL FEATURES

Injectable thixotropic premix, suitable for the filling of cracks and deep cracks of masonries, especially in vaults intrados. Cracks and micro-cracks not exceeding a 10mm width.

COMPOSITION OF THE FORMULA

It consists of special hydraulic binders (C30), chemically stable and with a very low content of soluble salts, pozzolana, siliceous-calcareous aggregates and a special combination of fluidizer, retentive and aerating additives. The special formula, produced in planetary dispersion 1/10.000 in not less than 20 minutes, results in a homogenous white premix.

FIELDS OF APPLICATION

Product used for fast and efficacious interventions of structural reinforcement of damaged artifacts. In combination with LEDAN TA 1 allows safe working in presence of frescoes.

PREPARATION'S INSTRUCTIONS

LEDAN TA 2 is a premix ready-to-use with the addition of water only. Mix vigorously LEDAN TA2 with clean water for about 4 minutes. Inject the product preferably within 10 minutes from the preparation, after removing the dust from the voids by suction (wet if possible).

RECOMENDED DOSES

USE	LEDAN TA2	WATER
Stucco of deep cracks and empty spaces	10 Kg	6 lt
Injections in large cavities	10 Kg	5 lt

INSTRUCTIONS FOR USE

- 1) If possible, wet the surfaces to be treated with multiple water applications
- 2) Before doing the stucco work, accurately remove the crumbly and incoherent parts and apply only on previously desalted and reinforced walls.
- 3) Add water to the LEDAN TA2, mixing vigorously with a drill at low speed, equipped with a stirrer, for about 4 minutes.
- 4) Keep the compound in agitation before injecting
- 5) Inject "in continuous" to avoid occlusions, with spray guns or proper machinery equipped with nozzles having a diameter not inferior to 6mm, that allow the total filling of the crack.

LIMITS FOR THE USE

LEDAN TA2 is a lime based compound, therefore avoid application in extreme cold conditions (minimum temperature below 5° C) or extremely hot (maximum temperature above 35° C).

The application of LEDAN TA2 can be done by, cochlea systems, compression air, pistons, both manual and electrical. It's advised, anyway, the use of equipments that allow to fill the masonry with high quantity of material, without the necessity of pauses for charging.

PHYSICAL - CHEMICAL FEATURES					
SPECIFIC WEIGHT	1,2 Kg/Dm ³	MEDIUM	ADHESION	0,9 N/mm ²	GOOD
INITIAL SETTING	6 HOURS	MEDIUM	EXUDATION	NONE	EXCELLENT
FINAL SETTING	10 HOURS	MEDIUM	STEAM PERMEABILITY	8 μ	GOOD
WORKABILITY	30 minutes	MEDIUM	ELASTIC MODULE	15.000 N/mm ²	MEDIUM
COMPRESSION STRENGTH	26 N/mm ²	MEDIUM	WATER RETENTION	>85%	EXCELLENT
BENDING STRENGTH	7 N/mm ² (28 gg)	MEDIUM	SHRINKAGE	1,60 μ	EXCELLENT

N.B. The mortar was characterised taking into account its own application mode. The numerical values refer to averages detected on media lab reproducing wall structures problems.

EFFLORESCENCE

To evaluate if any soluble salts contained in a mortar may cause unwanted phenomena of chemical and chromatic alteration, it is possible to carry out a lab test according to the RAL 544/3 regulation. The LEDAN TA2 mortar compound undergoing such a test does not cause efflorescence phenomena.

EXPERIMENTATIONS CARRIED OUT IN YARDS CHECKED BY THE MINISTRY FOR CULTURAL HERITAGE AND ACTIVITIES

A product to be used in the cultural heritage sector, not only requires rigorous laboratory studies, but also careful checks in building yards, to verify the effective results on duration and stability, together with the absence of direct and indirect negative effects and possible reversibility. LEDAN TA2 was developed thanks to a research promoted and financed by the Ministry of Heritage and Cultural Activities. The application tests carried out during the research, have proved that the product comply with the target-requirements and not presenting negative side effects, can be used on monumental restoration.

DURABILITY

Some LEDAN TA3 samples undergoing an accelerated aging cycle, simulating a natural aging of about 20 years, resulted in a performance downfall below 4%.

SPECIFICATIONS

Injections for consolidation and filling of cracks in structural systems also with vaults.

Due to the application peculiarity, the pre-mix must be tested for at least 5 years in researches promoted by the Ministry of Heritage and Cultural Activities. As a result the place, the date and the main chemical-physical characteristics of the tested product must be declared.

The manufacturer must also provide the reports related to the research activities carried out and ratified by the Public Institution in charge.

STORAGE

If conserved in a dry place and closed containers the product is conserved for 24 months

PACKAGES

Buckets of: 15 Kg

CONSORZIO EUROPEO TECNO EDILE TOSCANA
via Monti Lepini, 14 04100 LATINA (ITALY)
Tel (+39) 0773241293 Fax (+39) 0773611023
www.tecnoediletoscana.it