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STONESAFE
(A) Varnish, protecting stone
(B) Varnish, strengthening plasters, antigrafitti

Composition paint PI-1-7 Technical agreement IBDiM Nr AT/2010-03-

TECHNICAL DATA

DESCRIPTION

STONESAFE varnishes are formed on a base of colourless composition paint prepared on a base of drying oils modified physically during manufacturing process. Their purpose are application for protective and decorative painting surfaces of stone, of concrete and of plasters. High resistance to harsh environment conditions and strong adhesion influence consolidation of painted surfaces and protect them against biochemical destruction. Chemical resistance permits usage of agents for removing impurities and paints so-called graffiti without damaging the protected surface. Varnishes PI 1-7 can be put on using standard painting techniques (spraying, paintbrush, painting roller).

Purpose

To painting surfaces of all kind of building stone-polished and broken and of all kind of plasters applied in building industry, particularly:

- in industrial buildings;
- in commercial building;
- in monumental buildings and buildings of historic valve (based on a prior agreement with the conservator of monuments);
- to protect sculpture, monuments fountains and other objects of small architecture.

To realize anti-corrosion protection and protecting coats on constructions of concrete in building industry and communicational engineering.

PROPERTIES

Features of paint coats obtained as the result of the proper application of STONESAFE varnish are following:

increased adhesion to all types of stone, concrete and plaster;
exceptional abrasion resistance;
high flexibility, impact strength, thermal shock resistance;
fastness to water, acids, alkali, oils, petrol ;
maintenance of the colour up to 90°C ;

Detailed technical properties of paint are shown in the table1.

Table 1

.No	Properties	Units	Requirements	Test's method
1	2	3	4	5
1	Density	*g/cm³*	1,09 ±0,5	PN-EN ISO 2811-1:2002
2	Viscosity, mug ø 4 mm	*s*	116 ±11	PN-EN 2431:1999
3	Contents of non-volatile components	*% (m/m)*	80 ±8	PN-EN ISO 3251:2008
4.	Infra-red spectrum	-	Identification study according to figure 1	PN-EN 1767:2002

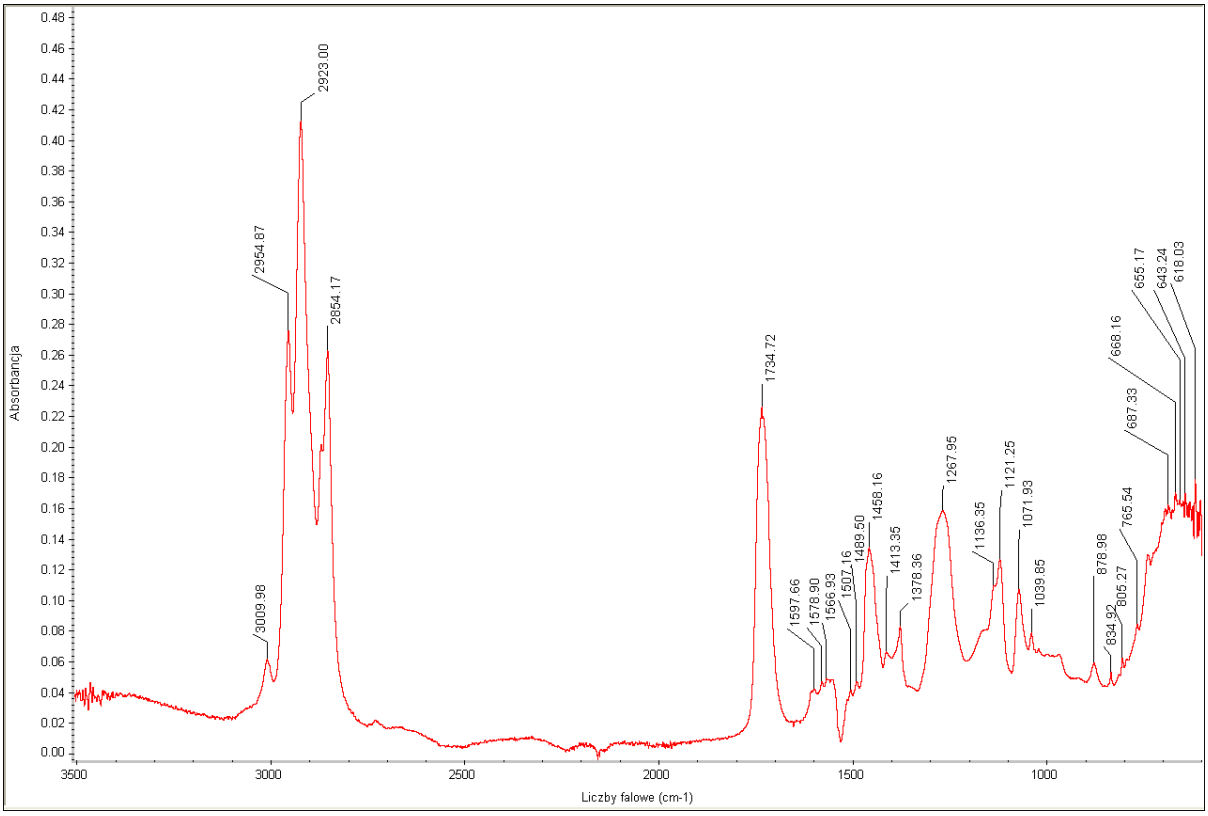

Figure 1. Spectrum FTIR of STONESAFE paint.

Requirements relating to properties of protecting coat prepared from STONESAFE paint are shown in table 2.

Table 2

NO	Properties	Units	Requirement	Test's method
1	2	3	4	5
1	Peel strength from foundation-average	MPa	≥ 1,5	PN-EN 1542:2000 Procedure IBDiM Nr PB/TM-1/6
2	Permeability of water vapour through the coat	m	$S_{D,H2O} \leq 4$	PN-EN 7783:2001
3	Permeability of carbon dioxide through the coat	m	$S_{D,CO2} \geq 50$	PN-EN 1062-6:2003
4	State of coat after 200 cycles of freezing and defrosting in water, in temp. $-18^0C/+18^0C$	-	No change	Research Procedure IBDiM Nr PO-2 (Research Procedure IBDiM Nr PB/TM-1/13)
5	Permeability to foundation after 200 cycles of freezing and defrosting in temp.:$-18^0C/+18^0C$	MPa	≥ 1,2	PN-EN 1542:2000 Procedure IBDiM Nr PB/TM-1/6
6	Capillary absorption	$kg/m^2h^{0,5}$	≤ 0,1	PN-EN 1062-3:2000

GUIDELINES OF PAINTING

THE WAY OF PREPARING THE PAINTING SET

Open the container and stir mechanically the content of the tin for about 5 min. Adjust viscosity of the varnish to the painting technique using the ATISOL thinner or painter's naphtha.
Clean tools and spraying devices directly after painting using any conventional solvent, but ATISOL thinner is recommended. Don't let the paint to dry up, it could damage tools and devices.

PREPARING SURFACES PRIOR TO PAINTING

The quality and the life of coating obtained as the result of application STONESAFE varnish, depend, first of all, on its adhesion to the surface. Best results can be received when the surface will be dry and grease and dust free. However, many cases of application the composite paints PI-1-7 set on stones and plasters painted decoratively indicate obtaining maximum parameters of the resistance and the life of coating on unprepared surfaces. In such cases it was enough to wash surfaces with a strong stream of water or water with a proper detergent for assurance the proper esthetical quality of the coat. Good results were obtained also in the case of spreading the varnish on damp surfaces.. Every case of the industrial application should be consulted with process engineers of the producer or of the licensed representative. This service is free of charge..

PAINTING

The varnish can be sprayed using hydrodynamic or pneumatic method, a painting roller or a

paintbrush can also be used to lay on the varnish. Viscosity of the varnish is regulated by ATISOL thinner for every kind of application. Received efficiency depend mainly on the method of application .
Use 1,8 – 2,5 mm jet for spraying ,spray from the distance 200-300 mm.
Required thickness of two coats, m A: 140 ± 60, B: 140 ± 60;
Surrounding conditions: minimum temperature 5ºC

ADDITIONAL INFORMATION
Transport codes : see The Characteristic of Dangerous Substance Card
Size of tins: 5 and 20 l;

Storage conditions:
The product should be kept in tightly closed containers at the well ventilated place, far away from the source of fire, oxidizing agent, strong alkalis and acids in the temperature 5 – 25º C.

Closed containers should be stored and transported in a vertical position.
Do not empty under pressure.

This information was created on the basis of our best knowledge and current data.