

SUPERIOR HIDING
POWER PAINTS THANKS
TO NIĞTAŞ CALCIUM
CARBONATE



COATING INDUSTRY



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NIĞTAŞ
CALCIUM CARBONATE
MINERAL



Coating Industry: Calcium Carbonate is widely used as a filler in paint applications. Especially in matt emulsion paints, 30% of the paint consists of calcium carbonate.

Interior and exterior paints

- Ceiling paints,
- Powder coatings,
- Solvent-based paints and primers,
- Decorative paints,
- Industrial paints,
- Epoxy paints,
- Road marking paints,
- Satin paints,
- Automotive paints,
- Glues

Application Areas	Products
Water-Based Interior Ceiling Paint	Niğtaş 5, Niğtaş 5A
Water-Based Interior Silicone Plastic Paint	Niğtaş 650,1,2,3,5
Water-Based Interior Silk Matt/Satin Paints	Niğtaş 95,75,65
Water-Based Exterior Primer And Putty Paint	Niğtaş 5,5A,5S
Water-Based Exterior Topcoat Paint	Niğtaş 5,5A,5S
Water-Based Decorative Paints	Niğtaş 95, Niğtaş 5A, Niğtaş 100
Powder Coatings	Niğtaş 5,5A,5S
All Solvent-Based Synthetic Primers And Pastes	Niğtaş 5,5A
All Solvent-Based Synthetic Topcoats	Niğtaş 650,1,2,650K,1K,2K
Epoxy Paints	Niğtaş 3,5,5A,5S
Road Marking Paints	Niğtaş 5,5A,5S, A100, KA100, NGE 35
Furniture Paints	Niğtaş 1,1K
Marine Paints	Niğtaş 650,1,2,3,5,5A
Automotive Paints And Pastes	Niğtaş 650,1,5, 650K,1K,
Glues	Niğtaş 650,1,650K,1K
Sealant, Silicone	Niğtaş 5,5A
Ink Industry	Niğtaş 95,75,65,95K,75K,65K



NIĞTAŞ CALCIUM CARBONATE PROVIDES
HIGH DISPERSION TO PAINT APPLICATIONS



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Plaster, Grouting and Adhesive Industry: Plaster is used for both decorative and functional purposes. Calcium Carbonate mineral with appropriate particle size distribution is used in plasters in order to meet aesthetic demands.

Calcium Carbonate used Products

- Plasters
- Joint Fillers,
- Exterior and Interior Wall Plasters,
- Primers,
- Mineral Coatings
- Plaster Mortars,
- Fillers,
- Ceramic-Tile-Granite Adhesives,
- Decorative Fillings,
- Repair Mortars,
- Epoxy Putties,
- Jambs,
- Mastics,
- Marble Adhesives,
- Artificial Marbles,

Sectors Using Granular Calcium Carbonate Products	Niğtaş Products
Jamb	Niğtaş NGE04 / NGE03
Synthetic Marble (Powder) (Kitchen Countertop Marble)	Niğtaş NGE K07
Synthetic Marble (fine Powder)	Niğtaş A100
Synthetic Marble (Coarse) (For decorative purposes)	Niğtaş NGE812/NGE1015
Plaster (Plaster and Machine)	Niğtaş GM10 / GM10T / KGM10
Plaster (Satin)	Niğtaş 100 / KA40A
Joint Filler	Niğtaş KA100/A100/150S
Construction Chemicals Adhesive	Niğtaş GM10/GM10T
Construction Chemicals (Mineral Plaster) (Decorative) (Fine)	Niğtaş NGE812 / NG812T
Construction Chemicals (Mineral Plaster) (Decorative) (Medium)	Niğtaş NGE1015/NGE1020
Construction Chemicals (Mineral Plaster) (Decorative) (Coarse)	Niğtaş NGE2025/NGE2530
Repair Mortar	Niğtaş NGE35/GM10
Ceramic Mortar, Granite and Tile Adhesive	Niğtaş GM10
Tile (Paving Stone) (Dusty)	Niğtaş GM10 Extra/GM10T
Tile (Pattern) (Medium)	Niğtaş NG1020 - NM2/GM2
Drilling Industry	Niğtaş A100,40
Glass Industry	Niğtaş NGE17 and NGE48
Fertilizer Industry	Niğtaş GM10T/FT
Cattle Feed Industry	Niğtaş GM10T / FT
Poultry Feed Industry (Powder)	Niğtaş GM10T / FT
Poultry Feed Industry (Coarse) (Chicken)	Niğtaş GM2
Aquarium Decorative	Niğtaş NGE1015 / NGE2025
Water Treatment Systems	Niğtaş NG1520 / NG1020
Carpet Floor	Niğtaş KA100, Niğtaş 150S

Advantages:

- Calcium carbonate improves the hiding power since it has the appropriate particle size distribution curve, Calcium carbonate improves application features,
- Calcium carbonate reduces the production costs
- Calcium carbonate improves the sag resistance and mechanical properties of the products in which it is used.
- Calcium Carbonate provides high whiteness.
- Calcium Carbonate increases adhesion strength.
- Calcium Carbonate shortens drying time



NİĞTAS
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NİĞTALK MAKES PAINT
ADHERE TO THE SURFACE
IN AN EXCELLENT WAY.

GENERAL FEATURES OF TALC

Talc is an aqueous magnesium silicate and its theoretical formula is $MgO_3Si_4O_{10}(OH)_2$. Industrial talc often differ considerably from theoretical purity. Such products may be in the form of a mixture of pure talc mineral and minerals such as dolomite, calcite, quartz, diopside, serpentine, magnetite, pyrite, tremolite-actinolite and mica in the paragenesis of talc in different proportions. Industrial talc is used by various names in the industry.

It contains 63.5% SiO_2 , 31.7% MgO and 4.8% H_2O in its ideal composition. Its hardness varies between 1-1.5 according to the Mohs Scale. Its density varies between 2.60-2.80. Although talc has poor thermal and electrical conductivity, it is resistant to fire. When exposed to high temperatures, it hardens, solidifies. It is not affected by acids. Talc is formed by the weathering of ultrabasic rocks by hydrothermal factors or by low-temperature metamorphism of siliceous dolomites. These formations are grouped into two main groups. The first is massive talc. This talc breaks down into splinters when struck with a hammer. Pure talc in this group is called steatite. The second group of talc is schists. They are thin-layered and contain a certain amount of talc.

PHYSICAL CHARACTERISTICS OF TALC

Color : Silvery white.
 Brightness : Dull like frosted or oily.
 Transparency : Crystals are translucent, the mass is opaque.
 Crystal Behavior : Generally, talc is in compact or leaf-shaped masses.
 It takes the false form of other crystals such as Quartz, pyroxene, olivine, and amphibole.
 Hardness : 1-1.5
 Specific Gravity : 2.6-2.8
 Other Properties : The cleavage pieces are slightly pliable, but not elastic.
 Talc feels like soap when touched.
 The best defining characteristics are: softness, color, soapy feel, shine and cleavage.

TALC APPLICATION AREAS

Talc is used in ceramics, paint production, roof coating, pesticide production, rubber and paper industry, cosmetics and pharmacology, asphalt filler production, animal feed and fertilizer production. Softness, oil absorption, moisture content, melting point, specific gravity, thermal and electrical conductivity and chemical analysis are important according to the intended usage.



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NIĞTALK ADJUSTS
THE VISCOSITY OF YOUR PAINT



NIĞTAS Product code	Standard Particle Values (Mastersizer 2000)		Standard Particle Values (Sedigraph)		Standard Particle Values (Sympatec Helos Rodos)		Standard Whiteness Values (Datacolor Elrepho 450x)				DOP	Linseed Oil
	d50	d97	d50	d98	X50	X97	RY C/2	L	a	b		
							Min	Min	max.	max.		
NIĞtalk 2X	4,0 ± 1	11,25 ± 1,25	1,25 ± 0,35	1,25 ± 0,35	2,70 ± 0,70	9,00 ± 1,00	92,00	97,00	0,10	1,35	62,00	52,00
NIĞtalk 5X	6,75 ± 0,75	19,0 ± 2,0	2,15 ± 0,25	8,25 ± 0,45	4,00 ± 0,50	14,50 ± 1,50	92,00	97,00	0,08	1,55	52,00	44,00
NIĞtalk 10X	10,0 ± 1	53,0 ± 5,0	4,0 ± 0,40	22,95 ± 2,15	5,25 ± 0,55	40,50 ± 4,50	92,00	97,00	0,02	1,80	43,00	36,00

Advantages:

- Talc with fiber and leaf properties is used in the production of paint and similar oils due to its oil absorption feature,
- Talc fiber allows the paint layers to interlock with each other and on the surface,
- Talc prevents the heavy paint materials from collapsing and ensures that the paint is more homogeneous,
- Talc has a reinforcing effect in the paint industry,
- Talc prevents film dyes from flowing,
- Talc controls the viscosity,
- Talc improves the suspension characteristic,
- Talc gives opacity to the paint due to its amorphous structure.



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