

# BROWN FUSED ALUMINIUM OXIDE F12-20



**OUR BROWN FUSED ALUMINIUM  
OXIDE IS YOUR COMPETITIVE  
ADVANTAGE IN CONSTRUCTION!**

DEAR PARTNERS,  
WE OFFER YOU  
A DOMESTICALLY PRODUCED  
MATERIAL – BROWN  
FUSED ALUMINIUM OXIDE  
– ONE OF THE MOST  
EFFECTIVE MATERIALS FOR  
STRENGTHENING OF THE  
BUILDING MIXTURES. IT IS  
USED IN CONCRETE, CEMENT  
MORTARS AND PLASTERS  
SIGNIFICANTLY IMPROVES  
THE MECHANICAL PROPERTIES,  
WEAR RESISTANCE AND  
DURABILITY OF STRUCTURES.

### CONCRETE – STRENGTH AND WEAR RESISTANCE

- High hardness – provides resistance to intense mechanical loads, which is especially important for industrial floors, warehouses and transport facilities.
- Abrasion resistance – reduces the risk of dust and cracks during operation.
- Reduced porosity – limits the penetration of moisture and aggressive substances, which extends the service life of concrete.
- Chemical resistance – increases resistance to acids, alkalis and other aggressive environments.
- Heat resistance – helps preserve the properties of the material during temperature changes.
- Increased compressive and bending strength – provides additional resistance to deformations and shock loads.

### CEMENT MORTARS – RELIABILITY AND STRENGTH

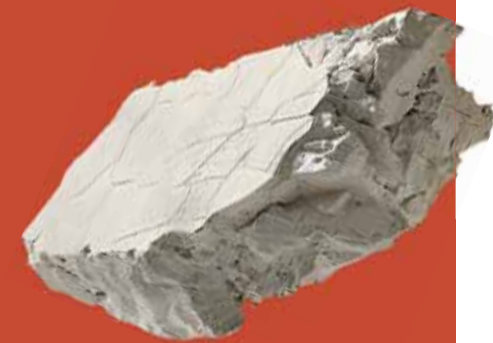
- Reinforced structure – brown fused aluminium oxide helps to compact the cement matrix, increasing the strength and durability of mortars.
- Increased wear resistance – mortars with brown fused aluminium oxide withstand high loads, preventing rapid abrasion.
- Resistance to aggressive environments – cement mortars with the addition of brown fused aluminium oxide better withstand the effects of acids, alkalis and moisture.
- Reduced porosity – reduces water permeability, which protects the concrete base from destruction.



- Increased adhesion – improves adhesion to other building materials, which ensures the strength and durability of the structure.
- Thermal stability – preserves the properties of the cement mortar in conditions of high or low temperatures.

### PLASTER – A DURABLE AND AESTHETIC COATING

- Increased hardness – brown fused aluminium oxide provides resistance to abrasion, impacts and mechanical damage.
- Prevention of cracking – plaster with brown fused aluminium oxide is less prone to the formation of microcracks and delamination.
- Reduction of porosity – reduces moisture penetration, which prevents the formation of fungus and mold.
- Resistance to aggressive environments – extends the service life of facade and interior plasters even in difficult conditions.



- Improved adhesion – improves adhesion to the base, which makes the coating more durable.
- Effective thermal regulation – reduces heat loss and stabilizes the microclimate in rooms.

## ZAPORIZHZHIA ABRASIVE PLANT IS THE ONLY MANUFACTURER OF ABRASIVE MATERIALS IN UKRAINE AND ONE OF THE LARGEST IN EASTERN EUROPE

Founded in 1939, the plant is a reliable supplier of high-quality abrasives to customers around the world. The production is located in Zaporizhzhia, and the range includes silicon carbide, brown fused aluminium oxide, nitride and boron carbide, as well as a wide range of abrasive tools: peeling, grinding and cutting wheels of various types and sizes.

ZAP products are manufactured using the latest technologies and undergo strict quality control. The company works for key industries such as: automotive, aerospace, construction, metallurgical, defense and others.

ZAP exports products to more than 10 countries, including Germany, Turkey, Lithuania, Poland, Italy, the Czech Republic, the USA and France.

The company is a member of SiCMA and FEPA.



CONTACT OUR MANAGERS TO LEARN MORE ABOUT THE ADVANTAGES OF BROWN FUSED ALUMINIUM OXIDE AND ITS APPLYING IN YOUR CONSTRUCTION!



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