SMA100 – Heavy Load Impact Resistant Floor Hardener

High Strength, Abrasion Resistant and Oil Resistant Industrial Flooring Material

Product Description

SMA100 is a heavy-duty metallic aggregate dry-shake floor hardener, designed to withstand high impact, abrasion and load stress. When applied to fresh concrete and mechanically trowelled, it creates a dense, impact-resistant surface layer with long-term durability. The material is suitable for industrial floors in environments with heavy equipment, tracked vehicles and oil exposure.

Key Features & Benefits

• High resistance to impact and heavy loads.

• Excellent abrasion resistance and long-term durability.

• Oil resistance: strength remains stable after 3 years of oil immersion, penetration ≤ 0.3 mm.

• Prevents dusting, improves surface density and load-bearing performance.

• Cost-effective and efficient construction solution for industrial flooring.

Performance Parameters

Test Item	Technical Index
Abrasion resistance	≤ 0.012 g/cm² (Böhme method)
Oil resistance	No strength loss after 3 years oil immersion; penetration depth ≤ 0.3 mm (including anti-seepage)
Compressive strength (28 d)	≥ 90 MPa
Flexural strength (28 d)	≥ 11.5 MPa (unbroken)
Tensile strength	≥ 3.5 MPa

Product Usage

• Heavy-duty industrial workshops, warehouses and logistics centers.

• Aircraft hangars, ports and docks exposed to high impact and heavy equipment.

• Military and defense facilities with tracked vehicles and armored equipment.

• Infrastructure projects requiring abrasion resistance and impact toughness.

Packaging & Storage

• 25 kg moisture-proof composite bags.
• Shelf life: 3 months in dry, ventilated storage.
• Protect from moisture and direct sunlight during storage and transport.

Disclaimer

The information in this Technical Data Sheet is based on laboratory tests and field experience and is provided in good faith. Sino-sina Building Materials Co., Ltd. makes no warranty of results obtained under conditions beyond its control. Users should confirm product suitability through site trials before large-scale application.