



**HYDA CON**  
Innovative chemical solutions

Technical Data Sheet

## **HYDACEM 3D 20** MORTAR FOR 3D PRINTER

### **HYDAC 3D 20**

This high-strength cementitious 3D printable mortar is used with 3D robot or gantry printers.

#### **OVERVIEW**

**HYDACEM 3D 20** is a high-strength, cementitious 3D printable mortar of M20 grade, specifically engineered for use with 3D robotic or gantry printers. It enables precise layer-by-layer extrusion, making it ideal for cutting-edge construction projects. This mortar delivers outstanding durability and performance, ensuring dependable results in 3D concrete printing.

#### **FEATURES & BENEFITS**

##### **1. SIMPLE PREPARATION**

Single-component mixture—just add water for quick and easy preparation.

##### **2. ROBUST PERFORMANCE**

Compressive strength exceeding 20 N/mm<sup>2</sup> for superior reliability in structural applications.

##### **3. EFFICIENT APPLICATION**

Easily pumpable, enabling faster and more efficient construction workflows.

##### **4. SUPERIOR BUILDABILITY**

Offers excellent buildability and stability, ensuring high-quality 3D print layers.

##### **5. WEATHER RESISTANT**

Resistant to freeze-thaw cycles, making it suitable for use in harsh environments.

##### **6. ECO-FRIENDLY**

Formulated to reduce environmental impact and support sustainable building practices.

##### **7. MAINTENANCE-FRIENDLY**

Easy-to-clean formulation minimizes long-term maintenance efforts and costs.

#### **PRODUCT DETAILS**

##### **AVAILABLE PACKAGING**

20 kg Bag

##### **COLOUR OPTIONS**

Grey

## **WHY CHOOSE HYDACEM 3D 20**

### **1. PRECISION FOR 3D CONSTRUCTION**

Engineered for robotic and gantry-based 3D printers, HYDACEM 3D 20 ensures smooth, consistent extrusion for layer-by-layer accuracy.

### **2. HIGH STRUCTURAL STRENGTH**

With a compressive strength exceeding 20 N/mm<sup>2</sup>, it guarantees solid and dependable builds for structural applications.

### **3. FAST & EFFICIENT BUILDING**

Its easy pumping and rapid setting properties streamline workflows, reducing time and labor costs on-site.

### **4. EXCELLENT BUILDABILITY**

Maintains form and stability during printing—ideal for complex geometries and tall structures without slumping.

### **5. ALL-WEATHER PERFORMANCE**

Resilient against freeze-thaw cycles, making it suitable for diverse climatic conditions and outdoor use.

### **6. ECO-CONSCIOUS FORMULA**

Designed with sustainability in mind, reducing environmental impact without compromising on performance.

### **7. HASSLE-FREE MAINTENANCE**

Its smooth, durable surface makes structures easier to clean and maintain over time.

**End of TDS**