



# Shandong Dragonintel Biotech Co.,Ltd.

Pannan west road, Zhangdian District, Zibo city, Shandong,China

## FORMULA OF HPMC IN CONSTRUCTION MATERIALS

### 1 - TILE ADHESIVE

MATERIALS	SPECIFICATIONS	FORMULA (KG)
CEMENT	42.5R	350
SAND	20-80 MESH	600
HEAVY CALCIUM		50
REDISPERSIBLE POLYMER POWDER		10-20
POLYVINYL ALCOHOL	160 MESH	10
HPMC	100000 CPS	2-3
HYDROXYPROPYL STARCH ETHER		0.2-0.5

### 2 - TILE POINTING AGENT

MATERIALS	SPECIFICATIONS	FORMULA (KG)
CEMENT	42.5R	300
HEAVY CALCIUM	200 MESH	600
HPMC	100000 CPS	4-5
GREY CALCIUM		100
REDISPERSIBLE POLYMER POWDER		20-25
POLYVINYL ALCOHOL	160 MESH	10
LIGNIN		1-3
PP FIBER	2.5mm	1-2
HYDROXYPROPYL STARCH ETHER		0.5
HYDROPHOBIC AGENT		2-3

### 3 – INTERIOR WALL PUTTY

MATERIALS	SPECIFICATIONS	FORMULA (KG)
GREY CALCIUM		300
HEAVY CALCIUM		700
HPMC	100000 CPS	5
REDISPERSIBLE POLYMER POWDER		3-5
WOOD FIBER		1
POLYVINYL ALCOHOL	160 MESH	1
BENTONITE		10

### 5 – EXTERIOR WALL PUTTY

#### 1) FLEXIBLE PUTTY FOR EXTERIOR WALL:

MATERIALS	SPECIFICATIONS	FORMULA (KG)
CEMENT	42.5R	300
HEAVY CALCIUM		300
QUARTZ SAND	100-150 MESH	400
HPMC	100000 CPS	3-4
REDISPERSIBLE POLYMER POWDER		10-15
LIGNIN		2-3
POLYVINYL ALCOHOL		3-5
HYDROXYPROPYL STARCH ETHER		0.2-0.5
HYDROPHOBIC AGENT		2-3

#### 2) ELASTIC PUTTY FOR EXTERIOR WALL

MATERIALS	SPECIFICATIONS	FORMULA (KG)
CEMENT	42.5R	300
HEAVY CALCIUM	200 MESH	300
QUARTZ SAND	70-100 MESH	300
GREY CALCIUM		100
HPMC	100000 CPS	3-4
REDISPERSIBLE POLYMER POWDER		25-30
LIGNIN		1-3
POLYVINYL ALCOHOL		3-5
HYDROXYPROPYL STARCH ETHER		0.5
PP FIBER	2.5mm	1-2

## 6 – PLASTERING MORTAR

MATERIALS	SPECIFICATIONS	FORMULA (%)
CEMENT	42.5R	28-30
QUARTZ SAND	40-70 MESH	65
HEAVY CALCIUM	180-200 MESH	5
REDISPERSIBLE POLYMER POWDER	-	2.5
HPMC	20000-100000 CPS	0.3
HYDROPHOBIC AGENT	-	0.3
WOOD FIBER	-	0.3

## 7 – BONDING MORTAR

MATERIALS	SPECIFICATIONS	FORMULA (KG)
CEMENT	42.5R	400
SILICA SAND		600
HPMC	80000-200000 CPS	1-2
PVC POLYMER POWDER		12
REDISPERSIBLE POLYMER POWDER		2-3

## 8 – MASONRY MORTAR

MATERIALS	SPECIFICATIONS	FORMULA (%)
CEMENT	42.5R	12-20
SLAKED LIME		0-6
HPMC	100000-200000 CPS	0.02-0.04
LIMESTONE POWDER		10-20
AIR ENTRAINING AGENT		0.01-0.03
QUARTZ SAND		60-80

## 9 – INSULATION MORTAR

MATERIALS	SPECIFICATIONS	FORMULA (KG)
CEMENT	42.5R	400
SLAKED LIME		600
HPMC	100000-150000 CPS	2
POLYVINYL ALCOHOL		3-5
REDISPERSIBLE POLYMER POWDER		10-15