

# ADCO GRANOSCREED 190

Cementitious-based, premixed speciality  
Granoscreed available in various  
application-specific formulations

ADCO  
Construction-  
and Mining  
Chemicals

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adcon cc  
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technical data sheet

## DESCRIPTION

ADCO Granoscreed 190 defines a selection of premixed dry cementitious-based, shrinkage compensated, micro and macro fibre reinforced screeds incorporating speciality chemistry for superior rheology and strength development and purpose-specific graded silica aggregates to yield superior wear resistance and durability.

The product is supplied in dry powder form, mixing water is added at point of mixing for installation.

The following products are available under the ADCO Gransoscreed 190 group :

ADCO Gransoscreed 190/30Q/20	-	minimum 30 MPa compressive strength, suggested thickness 12 – 20 mm
ADCO Gransoscreed 190/40Q/20	-	minimum 40 MPa compressive strength, suggested thickness 12 – 20 mm
ADCO Gransoscreed 190/30Q/45	-	minimum 30 MPa compressive strength, suggested thickness 21 – 45 mm
ADCO Gransoscreed 190/40Q/45	-	minimum 40 MPa compressive strength, suggested thickness 21 – 45 mm
ADCO Gransoscreed 190/30Q/60	-	minimum 30 MPa compressive strength, suggested thickness 26 – 60 mm
ADCO Gransoscreed 190/40Q/60	-	minimum 40 MPa compressive strength, suggested thickness 26 – 60 mm
ADCO Gransoscreed 190/50Q	-	minimum 50 MPa compressive strength speciality screed designed as per specific project requirement

Each of the above products can be supplied as ADCO Gransoscreed 190C – a coloured granoscreed as per project requirement

Each of the above products can be supplied as ADCO Gransoscreed 190M – incorporating a metallic fibre for increased wear and impact resistance.

## APPLICATIONS

ADCO Granoscreeds find a wide range of applications, including :

- As bonded underlayments to correct levels for later installations of floor covering such self-levelling screeds, vinyl or tiles.
- As bonded overlayments onto prepared concrete surface beds to render a screed with superior wear properties and durability.
- As bonded overlays in colour, sealed with ADCOseal 259, to form a high quality decorative coloured screed.
- As base screed to receive coloured dry shake-on hardener in the form of ADCO Floorhard 171 or ADCO FloorArt 151D.
- As bonded overlay incorporating metallic fibre for superior wear resistance in applications such as screeds to heavy duty workshops and even prison cells.

## INSTALLATION

The Substrate :

The substrate to receive ADCO Polycrrete 190 needs to be structurally sound and rendering a mechanical key for bonding. New floors are therefore finished to a wood-float / semi steel float finish and cured well. No driers or water addition are tolerated during placing and finishing. The quality requirements for the substrate include both compressive strength as minimum 25 – 30 MPa (and older than 14 days when placing the ADCO Granoscreed) as well as a superior quality surface finish as the product exhibits a high bond strength and thus requires suitable quality surface characteristics of the substrate.

Any installation of ADCO Granoscreed is preceded by mechanical scabbling / scarifying, where after all loose material and dust is removed and the exposed substrate saturated using clean water.

Bonding :

ADCO Granoscreed 190 systems are bonded to suitable sound substrates using either ADCOpoxy 612 (wet-to-dry epoxy adhesive) of ADCO Bonding 271T, a premixes bonding slurry in powder / liquid kit form. It is imperative to maintain a wet edge at all times on the applied bonding medium so as to ensure formation of structural bond.

Important to note – The ADCO Granoscreed 190 products are structurally bound to the substrate, stress relieve or uncontrolled crack propagation from the underlying substrate, will be transferred through the screed as well.

Surface Finish :

ADCO Granoscreed 190 materials are finished by steel float or power float to form a high quality closed pore-structure surface.

Where a non-slip texture is required, the formed and completed steel float finish is THEN textured to a “bromed-finish”.

Coloured ADCO Granoscreeds are prepared by manual sanding or mechanical sanding / scouring pad before sealing.

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## INSTALLATION (cont'd...)

### Mixing :

The standard procedure required the addition only of clean water to the dry pre-mixed powder. The maximum mixing water quantity is specified per product type. For particular applications, the incorporation of a latex or acrylate polymer into the mixing water may be necessary (ADCObond 231 or 239) – technical advice available.

### Joints in the substrate :

As per design specifications, joints are cut into new floor substrates to receive ADCO Granoscreed 190. These joints have to be marked accurately and aligned through the ADCO Granoscreed 190 overlay.

Where ADCO Granoscreed 190 is installed as level correction underlayment, the surface is finished by wood-float, enabling further installation of ADCO Cemscreed 185L as vinyl substrate or rendering a surface suitable to receive tile adhesive.

ADCO Granoscreed 190 exhibits accelerated strength development and hence particular attention to protection of fresh screed and a suitable and immediate curing regime to be maintained in order to derive the designed product qualities in its hardened state.

Please consult the ADCO construction chemicals technical department for further advice and method statements for your particular ADCO Gransocreed 190 flooring installation.

### SAFETY

ADCO Granoscreed 190 is not considered toxic or dangerous; however standard industrial precautions apply such as protective clothing, gloves and eye goggles. Cementitious-based products are alkaline and hence may cause irritation to the skin and eyes. Remember : Keep out of reach of children, handle responsibly and consider the environment.

### PACKAGING

ADCO Granoscreed 190 is supplied in ready-packed bags of 20 or 40 kg. For large projects, the material is delivered in 1 ton bulk bags.

### UPDATE

May 2017.

This supercedes all previous documentation.