One of the objects of the invention is to provide a simple and strong and conveniently adjustable device for supporting screeds, such as are used as guides in the levelling of concrete floors, roofs and other similar structures.

Another object of the invention is to provide an improved means for controlling the placement of concrete to form floors, roofs and the like, this means including a suitable screed supporting device.

A further object of the invention is to provide a method of placing concrete to form floors, roofs and the like, the said method involving the use of a screed supporting device and the removal of the said supporting device after the concrete has been placed.

Further objects of the invention will be apparent from the following specification and claims.

In the accompanying drawing, we have shown one embodiment of the mechanical features of our invention, but it is to be understood that the drawing is for illustrative purposes only and is not to be construed as defining or limiting the scope of the invention, the claims forming a part of this specification being relied upon for that purpose.

Of the drawing:

Fig. 1 is a combined sectional and elevational view showing the screed supporting device in operative position in a mold structure for a concrete floor or roof, this view being partly in section along the line 1—1 of Fig. 2.

Fig. 2 is a fragmentary longitudinal view partly in section along the line 2—2 of Fig. 1.

Of the drawing, 1 represents a screed which is adapted to be used in conjunction with another similar screed as a guide for the support and control of a levelling device or scraper A. It will be understood that when two of the screeds 1 are supported at the proper elevation the scraper A can be moved along them to properly spread the plastic concrete and smooth the upper surface thereof.

For supporting the screed 1, we provide horizontally extending brackets, one of which is shown in the drawing at 2. This bracket is provided with a hub 3 having a vertical aperture through which extends a vertical supporting standard 4. The standard is adapted to be carried by any suitable structure, such as a floor joist 5. As shown the joist 5 is provided with a recess at 6 which receives the lower end of the standard 4. Preferably the standard is provided with a collar 7 forming a shoulder which serves to limit the depth of insertion of the standard into the recess.

The bracket 2 is preferably vertically adjustable on the standard, and as shown the standard is provided with a series of holes 8. A bolt 9 extends through the hub 3 of the bracket and may be inserted into any one of the holes 8 to secure the clamp in vertically adjusted position.

When the concrete structure to be formed is a floor or roof, and when it is to be provided with integral supporting beams, there may be provided members 10, 10 of sheet metal, or other suitable material, which cooperate with the joist 6 to form the required mold for the floor beam.

In preparing for the placing of concrete, the supporting device is suitably mounted on the structure which forms the mold for the concrete, this supporting device projecting upward from the bottom of the said structure through the space which is to be filled with concrete. By means of two or more of the supporting devices, each of the screeds is held in horizontal position, and by means of the screeds the scraper A is guided to properly spread and level the concrete. After the concrete has been placed and levelled, the screeds 1 can be removed and thereafter the supporting device can be pulled out through the plastic concrete the holes closing up as the supports are pulled.

What we claim is:

1. In a screed support, the combination with a standard consisting of a single element of small cross sectional area adapted to be inserted for support in an upright position, in a recess in a suitable structure; a collar on said element limiting the extent to which it may enter the said recess; a screed-supporting bracket adjustable longitudinally of the element; and means for securing the bracket in adjusted position.

2. In a screed support, the combination with a standard consisting of a bar of small cross sectional area adapted to be inserted for support in an upright position in a recess in a suitable structure, said element having...
a fixed element adjacent its lower end limiting the extent to which it may enter the said recess and constituting a support for the element, and said element also having transverse perforations distributed longitudinally above said collar, a screed-supporting bracket slidable on the bar and having a transverse perforation adapted to register with the perforations in the bar, and a pin insertible in said registering perforations to support the said bracket in adjusted position on the bar.

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